# AMERICAN JOURNAL

*OF*

# OPHTHALMOLOGY

**THIRD SERIES FOUNDED BY EDWARD JACKSON**

VOLUME 62

JULY-DECEMBER, 1966

EDITORIAL STAFF

FRANK W. NEWELL, *Editor-in-Chief*
DERRICK VAIL, *Editor-in-Chief Emeritus*

BERNARD BECKER
WILLIAM L. BENEDICT
FREDERICK C. BLODI
THOMAS CHALKLEY
SIR STEWART DUKE-ELDER
DUPONT GUERRY, III
ARTHUR H. KEENEY
BERTHA A. KLIEN
ALEX E. KRILL
JAMES E. LEBENSOHN
IRVING H. LEOPOLD
WILLIAM A. MANN
JOHN CLEMENT MCCULLOCH
JOHN M. MCLEAN
A. EDWARD MAUMENEE
EDWARD W. D. NORTON
ALBERT M. POTTS
ALGERNON B. REESE
DAVID SHOCH
PHILLIPS THYGESON

KATHERINE FERGUSON CHALKLEY, *Manuscript Editor*
NANCY LAMBE, *Advertising and Business Manager*

COLLABORATORS

JOSEPH E. ALFANO, *Chicago;* HENDERSON ALMEIDA, *Belo Horizonte, Brazil;* SYLVAN BRANDON, *Houston;* JAMES W. BRENNAN, *Buffalo;* WILLIAM C. CACCAMISE, *Rochester, New York;* ALSTON CALLAHAN, *Birmingham;* THOMAS CHALKLEY, *Bethesda, Maryland;* GEORGE A. CHILARIS, *Athens;* RAY K. DAILY, *Houston;* ALICE R. DEUTSCH, *Memphis;* IRWIN E. GAYNON, *Milwaukee;* CONRAD L. GILES, *Detroit;* ROBERT I. GOLDBERG, *Flushing, New York;* ELLIS GRUBER, *Rochester, New York;* BERTHA T. HAESSLER, *Alamo California;* DAVID G. HANEY, *New Orleans;* PAUL A. HEIN, JR., *St. Louis;* ROBERT HEISS, *Chicago;* HARRY HORWICH, *Coral Gables;* MAURICE KADIN, *Granada Hills, California;* G. THOMAS KIFFNEY, JR., *Chapel Hill, North Carolina;* ROBERT S. L. KINDER, *Providence, Rhode Island;* WALTER KLEIS, *Santurce, Puerto Rico;* JAY G. LINN, JR., *Pittsburgh;* RONALD R. LOWE, *Melbourne;* GYULA LUGOSSY, *Budapest;* WALTER MAYER, *Richmond, Virginia;* PAUL W. MILES, *St. Louis;* MILORAD M. MILIC, *Steubenville, Ohio;* YUKIHIKO MITSUI, *Tokushima;* ALBERT MONTERASTELL, *Chicago;* EDWARD U. MURPHY, *Evansville, Indiana;* GUNTER K. VON NOORDEN, *Baltimore;* MIHAIL I. PASCO, *Tel-Aviv;* ANDREW DE ROETTH, JR., *New York;* WALTER SEGALL, *Chicago;* DONALD SROAT, *Chicago;* H. SAUL SUGAR, *Detroit;* STEVEN STILES, *Chicago;* RICHARD F. WEINSTEIN, *Chicago;* FRANK J. WEINSTOCK, *Falls Church, Virginia;* DAVID WELLINGTON, *Chicago;* HENRY B. WILSON, *Baltimore;* JAMES M. WOODWARD, JR., *Denver;* TSUYOSHI YAMASHITA, *Columbia, Missouri.*

PUBLISHED BY THE OPHTHALMIC PUBLISHING COMPANY
160 East Grand Avenue, Chicago, Illinois 60611

## COLOR ILLUSTRATIONS

### VOLUME 62

### JULY-DECEMBER, 1966

A NEW CLASSIFICATION OF DIABETIC RETINOPATHY. PEI-FEI LEE, J. WALLACE MCMEEL, CHARLES L. SCHEPNS AND RICHARD A. FIELD ..... *facing page* 208

FINDINGS IN THE PERIPHERAL FUNDI OF PATIENTS WITH RETINOBLASTOMA. GEORGE M. HOWARD AND ROBERT M. ELLSWORTH ..... *facing page* 244

CHANGES AROUND THE OPTIC NERVEHEAD: IN PRESUMED OCULAR HISTOPLASMOSIS. T. F. SCHLAEGEL, JR., AND DAVID KENNEY ..... *facing page* 454

TREATMENT OF DIABETIC RETINOPATHY BY LIGHT COAGULATION. PAUL C. WETZIG AND C. NEAL JEPSON ..... *facing pages* 460 and 463

PERIPHERAL FUNDUS CHANGES ASSOCIATED WITH OCULAR CONTUSION. DANIEL T. WEIDENTHAL AND CHARLES L. SCHEPENS ..... *facing page* 466

CHOROIDAL DETACHMENT AND RETINAL SURGERY: A CLINICAL AND EXPERIMENTAL STUDY. W. R. HAWKINS AND C. L. SCHEPENS ..... *facing page* 813

CORNEAL AMYLOIDOSIS. SAMUEL D. MCPHERSON, JR., G. THOMAS KIFFNEY, JR., AND CHARLES C. FREED ..... *facing page* 1025

# SUBJECT INDEX

**Explanation: Numbers in boldface refer to Original Articles and Notes, Cases, Instruments**

## A


A and V syndrome, 1001
ABSTRACTS:
1. Anatomy and comparative ophthalmology, 358, 594, **992**
2. Heredity, genetics, embryology and congenital anomalies, 180, 358, 595, 784, 992
3. Biochemistry and physiology, **181**, 360, 596, 786, 994
4. Microbiology and immunology, 183, 362, 599, 787, 995
5. Optics and refraction, 184, 362, 599, 789, 996
6. Pharmacology, therapeutics and toxicology, 184, 363, 599, 790, 998
7. Diagnosis and instrumentation, 186, 364, 600, 791, 999
8. Ocular motility and strabismus, 187, 364, 601, 791, 1001
9. Conjunctiva cornea and sclera, 188, 365, 602, 792, 1002, 1226
10. Uveal tract, 190, 367, 603, 795, 1003, 1227
11. Aqueous humor, ocular tension and glaucoma, 190, 368, 604, 796, 1004, 1227
12. Lens and vitreous, 192, 370, 606, 798, 1006, 1231
13. Retina and optic nerve, 193, 371, 607, 799, **1008**, 1231
14. Neuro-ophthalmology, 195, 373, 609, 801, 1011, 1233
15. Orbit and paraorbital structures, 196, 374, 802, 1012
16. Lids and lacrimal apparatus, 197, 375, 802, 1013, 1235
17. Tumors, 198, 375, 803, 1016, 1235
18. Systemic disease, 199, 376, 804, 1017, 1236
19. Injuries and occupational ophthalmology, **201**, 377, 804, 1018, 1237
20. Historical, educational and societal ophthalmology, 203, 378, 805, 1019, 1238

ACCOMMODATION, changes of ciliary region in, 789
  changes of ciliary zonule in, 789
  in congenital cataract, 193
  in darkness, 995
  lens changes in, 789
  myociliary dynamics and, 994
  refraction changes due to, 789
Acetazolamide, use in anesthesia, 600
  See also Diamox
ACIDS, amino, in blood plasma dog, 183
    in ocular fluids dogs, 183
    sulfur-containing, in homocystinuria, 784
  ascorbic, distribution in eye, 597
  formic, ocular injuries due to, 201
  homovanillic, urine excretion of in retinoblastoma, **239**
  hyaluronic, in subretinal fluids, 1009
  vanilmandelic, urine excretion of in retinoblastoma, **239**
Acromegaly, 377
Adaptometry, in chronic simple glaucoma, 1005
Adenoma, pituitary, 576
  pleomorphic, of lacrimal gland, 375
ATPase (adenosine triphosphatase), active transport of glial cells, 786
Adenovirus: See Viruses
Adnexa, plasmocytic granuloma of, 197
Adrenal cortex, physiology of, 804
Adrenalin eyedrops, influence on glaucoma, 796
Adrenergic sympathetic system, **405**
Africa, orbital-ocular cancers in, 803
AGE, influence on enzyme activity lens, 798
  influence on iris, 992
  influence on pupil, 992
  ophthalmic genetics and, 992
Agraphia, alexia without, **1149**
Air, insufflation in penetrating injury vitreous, 1237
Albinism, ocular, 359
Albumin, serum in cornea, 182
Albuminoid, problem of, 181
Alcohol, visual disturbances due to, 201
Alexia, without agraphia, **1149**
Allergy, of conjunctiva, 1002
Allescheria boydii, keratitis due to, **1202**
Alloxan, retinal alterations due to, 1232
Alpha crystalline, subunits of, 183
Alport syndrome, fundus albipunctatus in, 360
Alström-Olsen syndrome, 181
Alupent, influence on ocular tension, 796
Amaurosis, Leber's congenital, **986**
Amaurotic family idiocy, retinal arterioles in, 785
AMBLYOPIA, comparison euthyscope and pleoptophore in, 187, 365
  depth of anisometropia and, **757**
  eccentric fixation and, 792
    funnel diaphragm in treating, 187
    steplike occlusion in, 187
  functional, contrast function in, **511**
    luminance in, **511**
    visual acuity in, **511**
  hysterical, follow-up study of, **1106**
  occlusion, development eccentric fixation in occluded eyes and, **853**
  strabismic, 768
    causes of, 188
    color sense in, 188
    eccentric fixation in, 601
  visual acuity in, 792
Ametropia, pseudo- in extrafoveal scotopic vision, 997
  scotomas in, 997
Amino acids: See Acids
Amobarbital, in pleoptics, **1171**
Amphotericin B, in ocular histoplasmosis, 1227
Amyloidosis, corneal, **1025**
  of conjunctiva, 189
  of orbit, 1013
Analgesics, narcotic, influence on ocular tension, 1004
ANESTHESIA, acetazolamide in, 600
  in children, methohexital sodium for, **38**
  local, oculocardiac reflex and, 792
  retrobulbar, **586**
  topical, carbocaine for, 184
    in electronic applanation tonometry, **838**
  Trepanal, 185
  trial of some procedures, 790
Anemia, sickle-cell, fundus in, 377
Aneurysm, visual defects in, 1235
Angioglioma, of optic disc, 198
Angiography, carotid, ocular complications of, 195
  fluorescein, 1009
    to study diabetic retinopathy, 371
Angiokeratosis, diffuse, systemic and ocular manifestations of, **139**
Angioma, of iris, **803**
Angiomatosis, of retina, 1231
Angiopathy, in diabetic retinopathy, **207**
  retinal, traumatic, 202
Anisometropia, aphakic, fusion in, **764**
  depth amblyopia and, **757**
Anophthalmos, in thalidomide child, 363
Anorexia nervosa, cataract and, 193
ANTERIOR CHAMBER, antibiotic penetration into, 998
  asteroid bodies in, **1207**
  cyst free in, 370
  depth, new instrument to measure, **7**
  flat, after cataract extraction, 192, 193
  formation, after filtering glaucoma operations, **509**
    delayed, **640**
  pigment liberation into, glaucoma and, 1004
  syndrome, 369
  use urokinase in, 790
  vitreous in, tonography and, 1005
Anterior segment, beta radiation in diseases of, 791
  microsurgery of, 187
  necrosis, 800
Antibiotics, penetration into anterior chamber, 998
Antibodies, fluorescent, to diagnose fungus corneal ulcers, **892**
  humoral, in allergic conjunctivitis, **788**
  uveal autoantibody in ocular disease, 367

**Explanation: Numbers in boldface refer to Original Articles and Notes, Cases, Instruments**


Anticholinesterase drugs, cataract and, **613**
Anticoagulants, in experimental retinal thrombosis, **944**
in retinal vein occlusion, **874**
Antigens, in uvea, difference in bovine, 604
Antihistamines, in chronic dacryocystitis, 1116
APHAKIA, anisometropia in, fusion in, **764**
aqueous in, 362
axial length eye in, **1194**
contact lenses in unilateral, compensation problem, 1018
intraocular lens for, 997
optical correction of, 996
tonography by vacuum in, 1005
AQUEOUS, composition of, 1230
drainage, channels for, 1005
in vervet monkey, 596
ocular tension and, 596
dynamics, cocaine pretreatment and, 596
effect topical epinephrine on, in glaucoma suspects, **272**
electrophoresis of, in intraocular hemorrhage, 1230
in aphakia, 362
inflow, determination in rhesus monkey, 796
lens in, action insulin on, 581
outflow, hypophyseal stalk section and, **11**
in cynomolgus monkey, 796
resistance to, determining, **89**
tension decay curve to evaluate, 981
proteins of, influence on sympathetic system, 1004
serology of, 604
surface of endothelium material coating, **19**
veins, in ataxia-telangiectasia, **1118**
Arachnoid, in multiple sclerosis, 801
Arachnoiditis, chiasmal, syndrome of, 195
Arizona Ophthalmological Society, 769
Arteriosclerosis, choroidal circulation in, 1237
vascular pseudopapillitis in, 193
Arteriosclerotic chiasmal syndrome, 609
Arteriovenous malformation, exophthalmos due to, **971**
ARTERITIS, cranial, 1234
ischemic optic neuropathy and, **103**
temporal, 377
retrobulbar steroids in, **693**
Arthritis, gouty, complication of eye surgery, **755**
Aspergillus niger, infection of eye, **1204**
Asteroid bodies, in anterior chamber, **1207**
Asteroid hyalitis, 798
ASTIGMATISM, aberration eye due to, 789
conical, 599
corneal, spectacles to correct, 997
correction of, 184
influence eyelid movements on, 996
influence ocular rigidity on, 996
maxilla malformations and, 789
myopic, craniofacial dysplasia and, **697**
direct ophthalmoscopy in, 186
oblique, ophthalmometric findings in, 790
ptosis and, 1014
Ataxia-telangiectasia, eye signs in, **1118**
Aureobasidium keratomycosis, antifungal agents in, 362
Auricular cartilage autograft, into episclera, 1002
Autohemotherapy, in alkali burns of eye, 1019

**B**

Baird, James Mason, **172**
Barth, Joseph, contract with emperor, 805
Behçet's disease, 1017
ERG in, 1227
ocular pathology of, **257**
Behr syndrome, 784
Benedict, William Lemuel, **383**
an appreciation, **387**
publications of, **385**
tribute to, **381**
Betamethasone: See Celestone
Biochemistry of eye, symposium on, 1215
Biomicroscopy, contact glass for, 186
Bjerrum area, effect increased ocular tension on retinal differential thresholds of, **1049**
Blastostimulin, in ophthalmology, 999
Blepharochalasis, hereditary, 1014
Blepharoconjunctivitis, cancer chemotherapy and, 1002
Blind, education of, 1020
BLINDNESS, after skull and brain trauma, 1237
cortical, in congenital hydrocephalus, **251**
hysterical, 373
after lightning injury, 1237
in California, causes of, 1020
in infants, **546**
in young diabetics, 199
night: See Night blindness
prevention of, in newly developing countries, **983**
Bloch-Sulzberger syndrome, **330**
Bloom's syndrome, **753**
BLOOD, biochemistry of, in penetrating eye wounds, 202
disorders of, fundus in, 200
flow, capillary in bulbar conjunctiva, 786
of senile cataract patients, 798
plasma, amino acids in dog, 183
pressure, changes during weight lifting, 605
supply, cerebral, ophthalmodynamometry and, 196
ocular, ophthalmodynamometry in disturbances of, 1008
vessels, embryonal, vitreous and, 193
of brain, in multiple sclerosis, 801
of spinal cord, in multiple sclerosis, 801
sclerotic changes in, cataract extraction and, **1145**
veins, in reconstruction canaliculus and punctum, **676**
BOOK REVIEWS:
Bellows, John G.: Cryotherapy of Ocular Diseases, **1224**
Bennett, A. G.: Optics of Contact Lenses, **179**
Benton, Curtis D., Jr., and Welsh, Robert C.: Spectacles for Aphakia, **783**
Brückner, R.: Augenfibel: Der Augenkranke in der Allegemeinpraxis, **179**
Burck, Hans-Christian: Histologische Technik: Leitfaden für die Herstellung Mikroskopischer Präparate in Unterricht und Praxis, **179**
Callahan, Alston: Reconstructive Surgery of the Eyelids and Ocular Adnexa, **1222**
Cogan, David G.: Neurology of the Visual System, **176**
Conn, Howard F. (ed): Current Therapy 1966, **589**
Conn, Howard F., Clohecy, Robert J., and Conn, Rex B., Jr.: Current Diagnosis: A Biennial Volume of Clinical Diagnostic Methods and Evaluations, **989**
DeVoe, Arthur Gerard, and associates (ends): Symposium on Surgery of the Ocular Adnexa, **782**
Graham, Clarence H. (ed): Vision and Visual Perception, **355**
Guillot, P., Sarauz, H., and Sedan, R. (eds): L'Exploration Neuroradiologique en Ophtalmologie, **781**
Havener, William H.: Ocular Pharmacology, **1224**
Hobbs, H. E.: Principles of Ophthalmology, **355**
Hoffmann, D. H.: Die experimentelle endogene Entzundung des Augeninnern durch Candida Albicans, **1224**
Hoyt, William Fletcher, and Beeston, Diane: The Ocular Fundus in Neurologic Disease: A diagnostic manual and stereo atlas, **1225**
Hughes, William F. (ed): The Year Book of Ophthalmology, **177**
Jayle, G. E., Boyer, R. L., and Saracco, J. B.: L'Électroretinographie: Bases Physiologiques et Donnés Cliniques, **356**
Johnson, Carrie E.: Medical Spelling Guide, **357**
Kalmus, H.: Diagnosis and Genetics of Defective Color Vision, **177**
Kimura, Samuel J., and Caygill, Wayne M. (eds): Retinal Diseases: Symposium on Differential Diagnostics Problems of Posterior Uveitis, **591**
King, John Harry, Jr., and McTigue, John W. (eds): The Cornea: World Congress, **356**
Landolt, Ernst: Die Cataractoperation und ihre Komplikationen in Pathologisch-Anatomischen Sicht, **592**
Magraw, Richard M.: Ferment in Medicine: A Study of the Essence of Medical Practice and of Its New Dilemmas, **354**

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments


McGuff, Paul Howard: Surgical Applications of Laser, **178**
McKusick, Victor A.: Heritable Disorders of Connective Tissue, **592**
Monacelli, M., and Nazzaro, P. (eds): Behçet's Disease, **990**
Nano, Hector M.: Macula en Fondo de Ojo: Semiologia Clinica Practica, **991**
Plewes, L. E. (ed): Accident Service, **989**
Reinecke, Robert D., and Miller, David: Strabismus: A Programmed Text, **781**
Rohen, Johannes W. (ed): The Structure of the Eye: II, **988**
Rosengren, Bength (ed): Retinal Detachment Surgery: Diagnosis and Treatment, **588**
Straub, Wolfgang, and Rossmann, Hermann: Atlas of Diseases of the Anterior Segment of the Eye, **593**
Tinker, Miles A.: Bases for Effective Reading, **1222**
Visual Sciences Study Section: Symposium on Vascular Diseases of the Eye: Basic Considerations in Anatomy and Physiology, **591**
Wolken, Jerome J.: Vision: Biophysics and Biochemistry of the Retinal Photoreceptors, **588**
Bowman's membrane, amyloid deposits in, **1025**
irregularities of, 602
mosaic degeneration of, 994
Brain, injuries, blindness after, 1237
scanning, in neuro-ophthalmic diagnosis, **1076**
Bruch's membrane, colloid body spots in, **753**
hyaline degeneration of, **1**

C

California, blindness in, causes of, 1020
Campimetry, in alcohol-tobacco optic neuropathy, 1011
Camurati-Englemann disease, convergence insufficiency in, 358
exophthalmos in, 358
Cancer, chemotherapy, blepharoconjunctivitis and, 1002
of anterior uvea, iridocyclectomy for, 1017
orbital-ocular, in Africa, 803
Canthoplasty, Kuhnt-Szymanowski procedure in, **533**
Canthus, medial, repair severe defects of, 1015
Canton Ophthalmic Hospital, 1238
Carbon black, subconjunctival pigmentation due to, **146**
Carbonic anhydrase distribution in rabbit eye, 181
Carcinoma, basal cell, 1016
bronchial, metastatic to eye, **723**
ocular symptoms of, 1018
in hydroa vacciniforme, 1235
of eyelid, 376
of lung, myasthenic syndrome with, 1016
ptosis in, 1016
pupils in, 1016
of meibomian glands, 376
squamous-cell, 1016
of conjunctiva, 376
of cornea, 198
Carotid, angiography, ocular complications of, 195
artery, occlusion, carotid-compression test in, **116**
cavernous fistula, 1234
Cartilage, corneal replacement with, 795
Cat, retinal vascular system of, 594
visual receptive fields in retina of, 786
CATARACTS, after topical steroids, 192
anorexia nervosa and, 193
anticholinesterase drugs and, **613**
aspiration of, **1141**
congenital, accommodation in, 193
associated with congenital heart disease, **963**
craniofacial dysplasia and, **697**
management of, 595
surgery of, 370
cortisone-induced, spontaneous absorption, 1007
CRYOEXTRACTION of, 193, 1008
cryoslide technique, **83**
double-pronged iris hook for, **977**
intracapsular, Krwawicz technique, 1008
of congenital, 1007
of juvenile, 1007
CATARACTS *(continued)*
CRYOEXTRACTION *(continued)*
results, 799
zonulolysis and, 1007
dermatogenic, 371
diabetic, 606
due to high-power electric current, 1007
experimental, 1008
EXTRACTION, 192
after glaucoma operations, 1004
asteroid bodies in anterior chamber after, **1207**
choroid detachment after, 193
Cogan's microcystic dystrophy corneal epithelium and, **65**
complications of, 770
osmotic agents in, 370
double-purpose forceps for, **344**
expulsive subchoroidal hemorrhage after, **536**
flat anterior chamber after, 192, 193
hemophthalmos after, 1231
in diabetics, 1006
in glaucoma 370, 799
in retinal detachment, 1009
incisions for, 606
iridectomy and, 1007
keratoplasty combined with, **556**
lens delivery in, 1007
planned tumbling of, 193
of secondary, zonulolysis in, 580
osmotic agents before, vitreous and, **220**
posterior pole changes after, **1145**
vitreous loss in, reduction of, 192
without assistants, 1231
wound closure after, 606
biologic, 606
without sutures, 607
wound healing after, 798
zonulolysis in, 370
filtration soluble proteins from, 192
formation, Phospholine Iodide therapy and, **619**
galactose, 182
in ectopic dermatitis, 200
influence on glaucoma, 1230
juvenile, surgery of, 370
neutron-induced, 799
operations, after fistulizing operations, 1231
patients, mental confusion in postoperative, 1007
phacolytic glaucoma and, 1229
posterior cortical, after long-term local steroids, 600
retinal detachment and, 606
rubella, **222**
rubella virus in, **233**
secondary, zonulolysis in, 580
senile, blood study in, 798
ERG in, 1006
spectacles, plastic temporary, 364
surgery, vitreous-tug syndrome complicating, **856**
traumatic, hypermature, 799
trinitrotoluene, in miners, 1008
viral, in suckling mice, 184
Catecholamines, **405**
Caterpillar, ophthalmia nodosa due to, 1002
Celestone, experiences with, 998
in infections, 790
ophthalmic preparations of, 790
Cerebrospinal fluid, implantation in retinal detachment, 800
Chicago Ophthalmological Society, 578, 767
CHILDREN, African, malignant lymphoma in, 376
color vision screening in, 362
disorders nasolacrimal apparatus in, 1013
eye diseases in, 1238
facial fractures in, 202
infants: See Infants
keratoplasty in, 602
school, visual defects in, 378
sedation in, methohexital sodium for, **38**
sensory and oculomotor defects in, **365**
strabismus in young, 188

**Explanation: Numbers in boldface refer to Original Articles and Notes, Cases, Instruments**


CHILDREN *(continued)*
thalidomide, anophthalmos in, 363
uveitis in, 1003
visually handicapped, education of, 1020
rehabilitation of, 203
Chlorpromazine, eye changes with, 185
ocular manifestations of, 363
pigment deposition after long-term, 790
prolonged, corneal and lens changes after, 998
Chloroquine retinopathy, 998
experimental, 600
Cholinesterases, **771**
blood activity of in glaucoma patients on Phospholine Iodide, **834**
drugs affecting cholinergic systems and, **771**
inhibition by Phospholine Iodide, **619**
Choriocarcinoma, 375
Chorioretina, in retinoschisis, **683**
Chorioretinal anastomosis, in collie ectasia syndrome, **728**
Chorioretinal dysplasia, symmetric, 994
Chorioretinal lesions, predisposing to retinal breaks, **608**
Chorioretinitis, central serous, fluorescein photography of, **801**
Jensen's, **795**
Chorioretinopathy, microcephaly and, 785
CHOROID, circulation of, in arteriosclerosis, 1237
coloboma, in collie ectasia syndrome, **728**
detachment, after acute glaucoma, 191
after cataract extraction, 193
glaucoma complicating, **813**
retinal surgery and, **813**
suprachoroidal puncture in, 1006
direct rupture of, 368
expulsive subchoroidal hemorrhage after cataract extraction, **536**
lipid globules of, 368
mast-cell degranulation of, 368
melanoma of, overabundance uveal ganglion cells in, **1034**
malignant, **1236**
in pregnancy, **910**
radiotherapy in, 803
melanosarcoma, subretinal hemorrhage resembling, 193
nevi of, 198
visual field defects associated with, **914**
sarcomas of, clinical evaluation, 1017
tumors metastatic to, 376, 1016
tumors of, photocoagulation in, 1016
retinal detachment and, 376
Choroiditis, in ocular histoplasmosis, **454**
Chromosomes, ocular abnormalities associated with X-, 359
CILIARY BODY, detachment after contusions globe, 378
ion transport of, **1128**
neuroepithelioma of, 1017
nevi of, 198
sarcomas of, clinical evaluation, 1017
secondary malignant melanoma of, 1236
Ciliary muscle, architecture of, 994
Ciliary region, changes in during accommodation, 789
Cogan's microcystic dystrophy, of corneal epithelium, **65**
Cold, eye damage due to, 202
Collagen tape, photocoagulation and, in retinal detachment, **799**
Collie ectasia syndrome, **728**
Colobomas, congenital of eyelid, 375
cystic of optic nerve, with cyclopia, 359
in collie ectasia syndrome, **728**
Color blindness, ERG in cone-monochromat, 598
tests, Farnsworth Panel D-15, **27**
Color sense, in strabismic amblyopia, 188
COLOR VISION, disturbances of, diagnosis of, **1000**
in intoxications, 998
examination, Nagel anomaloscope in, 600
Rayleigh's equation in, 600
in motor drivers, 377
requirements, in electrical industry, 1019
screening, pediatric, 362
tests, Farnsworth Panel D-15, **27**
Colored test objects, to measure visual acuity, **599**
Complamine, in retinitis pigmentosa, 363
in vascular eye diseases, 600
Congenital anomalies, 595
corneal opacities, 180
in osteogenesis imperfecta, 993
ocular, X-chromosome and, 359
oculomotor apraxia, 196
retinal dysplasia and, 181
vascular, exophthalmos due to, **971**
CONJUNCTIVA, 197
allergy of, 1002
amyloidosis of, 189, **1025**
bulbar, blood flow in, 786
cavity, reconstruction for ocular prosthesis, 1013
mycotic flora of, **968**
neoplasms of, differential diagnosis, 1017
pemphigoid symblepharon of, 1002
pigmentation, due to cosmetics, **146, 672**
PPLO organisms isolated from, **1125**
sac, dilation of scarred, 1227
squamous-cell carcinoma of, 376
tuberculosis of, 793
Conjunctivitis, allergic, humoral antibody in, 788
bacteriology of, 788
follicular, virology of, 995
CONTACT LENSES, adaptation of soft corneal, 996
bacterial decontamination of, **324**
bitruncated, 997
complications of, 582
diagnostic, applying, 1000
corneal, **159**
in unilateral aphakia, compensation problem, **1018**
inspection, Radiuscope$^{R}$ in, **538**
International Congress on Corneal and Scleral, **346**
keratoplasty or, in keratoconus, 793
materials for, clinical considerations, **137**
safety requirements for, **132**
pregnancy and, 996
recurrent corneal erosion and, **964**
Contrast, differential thresholds in glaucoma, 1005
function, in functional amblyopia, **511**
Contusions, peripheral fundus changes with ocular, **465**
Covergence, insufficiency in Camurati-Englemann disease, 358
CORNEA, acellular zone of, 992
adenosine triphosphatase in, 787
alkali burns of, keratoplasty in, 978
amyloidosis of, **1025**
as an ionotropic gel, 1002
astigmatism, spectacles to correct, 997
blood staining of, deferoxamine in, **791**
carcinoma of, 198
changes, after prolonged chlorpromazine, 998
congenital opacities of, 180
curvature, changes in, **175**
damage, due to cortisone therapy, 790
due to loss precorneal tear film, 603
due to ophthalmic ointment and oil, 791, 794
due to steroids, 602
disease, ocular tension increase in, 1231
dissection, due to silicone plate, **574**
dystrophy, electron microscopy of, 793
hereditary epithelial, 360
macular, 189
electron microscopy of, **436**
marginal, 1003
mosaic, megalocornea and, 1002
Reis-Buecklers, 595
studies, on types of, 360
edema, buried implant in, 365
control of, 980
effect dimethyl sulfoxide on cells of, 981
electrolytes in stored, 361
endothelium, adhesion anterior hyaloid to, cryolysis of, 1226
during freezing and thawing, apparatus to observe, 19
iris atrophy and proliferation of, 604
retention $H^3$ thymidine by, 794
enlarged, associated with congenital heart disease, **963**

**Explanation: Numbers in boldface refer to Original Articles and Notes, Cases, Instruments**


CORNEA *(continued)*
epithelium of, ATP-ase of, 978
biologic properties transplanted, 602
Cogan's microcystic dystrophy of, **65**, 366
dystrophy, in diffuse angiokeratosis, **139**
erosion of, recurrent, 603
bilateral, **964**
gel of arranged filiform molecules, 183
hematoma of, 603
hexose monophosphate pathway of, 786
histiocytoma of, 793
hypersensitivity of, subconjunctival steroids and, 794
ion transport across, 597
limbus of, diffusion fluorescein through, 794
megalo: See Megalocornea
melanoma of, 198
microstructure of, 603
mucopolysaccharides of, 183
nerve canals of, 358
less myelinated fibers of, 358
opacities, in collie ectasia syndrome, **728**
potential, in excised cornea, 596
in whole eye, 596
protection of, during retinal detachment surgery, **760**
regeneration, ocular tension and, 1226
replacement, with cartilage, 795
rust stains of, nonsurgical removal, 201
sensitivity, after retinal detachment surgery, 1226
in diabetics, 1226
serum albumin in, 182
stored, function of, 794
water and cation shift in, 787
water in, 361
stroma, herpes simplex disease of, **1136**
radioactive sulfate study of, 597
sutural fibers of fish, 992
thickness, new instrument to measure, **7**
ulcers, fungus, diagnosis by fluorescent antibodies, **892**
rodent, 189
treatment of, 795
vascularization, management experimental, **707**
wounds, biologic glue to seal, 1003
Eastman 910 in, 1003
healing of, effect retinal detachment surgery on, 366, 793
Corrections, 354, 780, 988
CORRESPONDENCE:
Corneal curvature changes, **175**
Correction, **354**, **780**
Experimental uveitis II, **988**
Diagnostic ultrasonography, **588**
Experimental open-angle glaucoma, **353**
Leber's congenital amaurosis, **986**
Management of Elschnig's pearls, **1221**
My two cryopexies: A personal account, **1220**
Nasolacrimal probing, **780**
Postural change and treatment of glaucoma, **780**
Retrobulbar anesthesia, **587**
Self-illuminated goniolens, **1221**
Subconjunctival corticosteroids, **173**
Surgery for congenital esotropia, **987**
Ultrasharp disposable needles, **173**
Cortical response, visual-evoked, in night blindness, **1166**
CORTICOSTEROIDS, 363
cataract after long-term local, 600
subconjunctival, **173**
testing for glaucoma, in high myopia, **1039**
topical, ocular tension and, 1004
Cortisone, cataract induced by, spontaneous absorption of, 1007
corneal damage due to, 790
prolonged, vitreous chemistry after, 1006
tests, heredity primary open-angle glaucoma and, **844**
in chronic simple glaucoma, 369
Cosmetics, pigmentation due to, conjunctival, **672**
subconjunctival, 146
Coumadin, in experimental retinal thrombosis, **944**
Craniofacial dysplasia, **697**
Cryoextraction; See under Cataracts
Cryolysis, of adhesion anterior hyaloid membrane, 1226
Cryomanipulator, **364**
Cryopexy, retinal, 372
Cryosurgery, anterior segment necrosis and, **800**
compared to photocoagulation, 800
in retinal detachment, 371
iris retractor for, **150**
thermoelectric, of retina, 601
Cryotherapy, eye damage due to, 202
influence on ocular tissues, 1009
Cryptococcosis, experimental ocular in pigeons, **95**
Cryptodontia, orbital complications of, 1013
Cryptophthalmos, 360
malformation syndrome and, 785
Cutis hyperelastica, 359
Cyclodialysis, prophylaxis hemorrhage during, 1228
Cyclopia, with cystic coloboma optic nerve, 359
Cysticercus, in vitreous, operation for, 1231
CYSTS, free in anterior chamber, 370
hydatid, of orbit, 197
of lacrimal gland, **375**
orbitopalpebral cryptophthalmos and, 360
Cytomegalic inclusion disease, retinal changes in, **1153**
Cytostatics, in ocular tumors, 1017

**D**

Dacryocystitis, antihistamines in chronic, **1116**
bacteriology of, 788
Dacryocystorhinostomy, 1235
external, 1014
fibrin sponge for pack after, 1015
intubation lacrimal duct in, 1015
nylon drain in, 1015
Dalton bicentenary, **985**
Dark adaptation, in night blindness, **1166**
Darkness, accommodation in, 995
Dazzling, effect on ERG, 360
Deferoxamine, in corneal blood staining, 791
in ocular siderosis, 363, 791
in vitreous hemorrhage, 791
Demecarium bromide (Tosmilen), in glaucoma therapy, 369
Denmark, pseudoexfoliation lens in, 370
retinoblastoma in, 199
Dermatitis, ecotopic, ocular complications of, 200
Dermatomyositis, retinopathy with, **200**
Descemet's membrane, in macular dystrophy cornea, **436**
Diabetes, fundus in, 1018
in Chinese hamsters, effect insulin on, 979
in phycomycosis, **905**
ischemic optic neuropathy and, **103**
retinal changes in, 1017
retinal vascular changes in, reversal of, 199
therapy, present status, 1017
DIABETIC RETINOPATHY, classification for clinical use, **207**
exudates and proliferations, **207**
fluorescein angiography to study, 371
hypophyseal stalk section in, ocular tension and, **11**
in dog, 980
pericytes in, 607
photocoagulation in, **459**, 607
proliferative, 199
photocoagulation in, 372
vitreous contraction in, 200
retinal artery pressure in, 1231
role growth hormone in, **401**
Diabetics, blindness in young, 199
cataract extraction in, 1006
corneal sensitivity in, 1226
hypophyseal stalk section in, ocular tension and, **11**
vitreous opacity in young, 199
Diagnosis, microsymptoms and, 186
ultrasound in, 186
Diathermy, anterior segment necrosis and, 800
Dihydroergotamine, 999
Dimethyl sulfoxide, lens changes during oral, 998
Dische, Z., autobiography of, 203
Districhiasis, correction partial, 1014
Dominance, influence on susceptibility eye to disease, 786

**Explanation: Numbers in boldface refer to Original Articles and Notes, Cases, Instruments**


Doyne Memorial Lecture, 1964, 790
Drivers, motor vehicle, ophthalmic norms for, 1020
DRUGS, adverse effect of on EENT, 185
affecting cholinergic systems, **771**
anticholinesterase, cataract and, **613**
in glaucoma, 1006
antifungal, 362
antimalarial, ocular manifestations synthetic, 999
antiviral, 995
in Vogt-Koyanagi-Harada disease, 1227
calcifying, in retinoblastoma, **573**
cancer chemotherapy, blepharoconjunctivitis with, 1002
Celestone ophthalmic, 790, 998
cholinergic, in glaucoma, 1006
colloidal, 998
Complamine, in retinitis pigmentosa, 363
cytostatic, in ocular tumors, 1017
in uveitis, 603
deferoxamine, iron chelating agent, 363, 791
emetine, in ocular viral disease, 600
epinephrine salts, influence on ocular tension, 1228
glycerol, long-term oral, in glaucoma, 370
vitamin C and, as osmotics, **824**
influence norethynodrel with mestranol in glaucoma, 1228
intoxications, color vision disturbances in, 998
methotrexate, in sympathetic ophthalmia, 1227
ocular penetration of, 790
osmotic, EKG during, 185
in glaucoma, 190, 797
in postoperative cataract complications, 370
influence on vitreous, **220**
therapy with, **629**
pharmacogenetic, **396**
Psyquil, 185
Synapleg, in glaucoma, 1230
toxic, eye and, 579
Drusen, fluorescein studies of, **1**
Dysmelia syndrome, ocular malformations in, 785
Dysmetria, ocular, 1234

E

Eales' disease, lymphoreticular reactions in, 799
photocoagulation in, 607
Eastman 910, in corneal wounds, 1003
Echography: See Ultrasonography
Echothiophate iodide: See Phospholine Iodide
Ectropion, Kuhnt-Szymanowski procedure in, **533**
surgery for, **298**
EDITORIALS:
AMA meeting 1966, **350**
AOS meeting, **170**
ARO meeting June 1966, **351**
October 1966, **1218**
Cholinesterase: And the effects and side-effects of drugs affecting cholinergic systems, **771**
Council for Research in Glaucoma and Allied Diseases, **1216**
Dalton bicentenary, **985**
Genetics and the eye, **583**
International Congress, **777**
Japanese Ophthalmological Congress, **585**
Preventable eye diseases and blindness: In the newly developing countries, **983**
Ehlers-Danlos syndrome, 359
Elastorrhexis, cutis hyperelastica and, 359
Electricity, iris atrophy due to arc of, **153**
Electrocardiogram, during osmotic hypotensive agents, 185
in glaucoma, 1228
Electroencelphalogram, in megalocornea, 994
in Stargardt disease, 359
Electromyography, 580
to analyze eye muscle palsies, 187
ELECTRON MICROSCOPY, acellular zone cornea, 992
fast and slow fibers extraocular muscles, **478**
in cytomegalovirus infection, **1153**
of corneal dystrophy, 793
of corneal epithelium, 787
of cystoid degeneration peripheral retina, 801
of experimental degenerations eye, 372
ELECTRON MICROSCOPY *(continued)*
of macular dystrophy cornea, **436**
of photoreceptors, 182
of retina after alloxan, 1232
of retinal arterioles, in amaurotic family idiocy, 785
of sutural fibers fish cornea, 992
of zonule bird and mouse eyes, 595
Electro-oculography, illumination changes and, 361
in preretinopathic diabetes, 1018
Electrophoresis, immuno-, proteins human tears by, 183
micro-, proteins human tears by, 183
of aqueous, in intraocular inflammations, 1230
to study pigment degenerations retina, 1010
ELECTRORETINOGRAPHY, 999
after section optic nerve, **287**
b-wave of, negative component of, 994
clinical importance of, 1000
effect dazzling on, 360
flicker stimulation and, 361
in Behçet's disease, 1227
in blindness in infants, **546**
in cone-monochromat, 598
in congenital hydrocephalus, **251**
in essential hemeralopia, 993
in experimental retinal hemorrhage, 372
in experimental vitreous hemorrhage, 372
in eye diseases, 364
in macular alterations, 1232
in night blindness, **1166**
in preretinopathic diabetes, 1018
in retinal pigmentary degenerations, 194, 1233
in retinitis pigmentosa, 180
albescens, **125**
in retinitis punctata albescens, 372
in senile cataract, 1006
in siderosis bulbi, 1238
in Stargardt disease, 359
influence metabolic inhibitors on, 361
influence ocular tension on, 787
manifestations, of hyperbaric oxygen, 1237
of embryonic frog, 358
Emetine, in ocular viral diseases, 600
Endophthalmitis, exogenous, prednisone in, 999
streptococcic, 981
Entropion, cicatricial, Eastman 910 monomer for, **953**
secondary to ptosis surgery, correction of, 1014
senile, 198
Enucleation, implants after, 197
indications for primary, 202
Enzymes, glycolytic in rabbit lens, 181
respiratory in rabbit uvea, **939**
Eosinophil counts, in response to light, 361
Epidermoids, intracranial, 1011
Epinephrine, topical in glaucoma suspects, **272**
Epiphora, senile, 982
Episclera, auricular cartilage autograft into, 1002
Epithelioma, calcified, 1017
Eponyms, syndromes and, 805
Esotropia, congenital, surgery for, **987**
Estrogen, failure of in traumatic hyphema, **1098**
Euthyscope, in treatment amblyopia, 365
Evisceration, agar filling socket after, 374
Evoked electro-occipitogram, in blindness in infants, **546**
in congenital hydrocephalus, **251**
Evoked occipital potential, computer analysis of, 1000
Exodeviations, classification, diagnosis, treatment, **1161**
EXOPHTHALMOS, 1013
arteriovenous malformations and, **971**
craniofacial dysplasia and, **697**
endocrine, immunologic factors in, 200
glaucoma and, 191
in Camurati-Englemann disease, 358
in chronic orbital myositis, **292**
malignant, papilledema complicating, 577
thyroid, orbital decompression in, **1089**
tropias of, surgical management, 804
unilateral, 197, 1013
etiology of, 769
X-ray diagnosis, 1012
X-ray changes in, 197
Exotropia, intermittent, **576**

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments


Eyeball, anelasticity of, tonometry errors and, 604
  innervation of, 1235
Eyebrow, fasciitis of, 1012
Eyedrops, iodine, 185
EYELIDS, 197
  carcinoma of, 376
  clamp retractor for, **759**
  coloboma, congenital, 375
  development human, 993
  Eastman 910 monomer, in plastic procedures on, **953**
  fasciitis of, 1012
  histochemistry of, 993
  keratoacanthoma of, 376
  lower, repair of, 1014
  molluscum contagiosum of, keratoconjunctivitis and, 793
  movement, influence on astigmatism, 996
  palpebral fissure and, **73**
  speculum, 364
  surgery of, 198
    reconstructive, 979
  tumors of, differential diagnosis, 1017
  upper, congenital eversion of, 802
Eyepatching, abrasion free, **575**
EYES, axially symmetric correction of, 184
  changes, chlorpromazine therapy and, 185
  complications, in sinusitis, 1012
  degenerations, electron microscopy of, 372
  diseased, tears in, 375
  diseases, ERG in, 364
    in children, 1238
    of poor, von Graefe's advertisement, 203
    prevention of, in newly developing countries, **983**
    steroids in, 363
    typhoid vaccine in, 363
  effect X-irradiation on axolotl, 1018
  fat embolism in, 194
  genetics and, **583**
  in leukemia, 1236
  influence cryotherapy on, 1009
  optical components of, ultrasonic measurement, 599
  pressure-volume and pressure-flow in, 368
  so-called destruction of, enucleation and, 202
  susceptibility to disease, influence dominance on, 786
  vascular diseases of, Complamin in, 600

F

Fabry's disease, **139**
Face, fractures in children, 202
  hemiatrophy of, 801
  lymphadenosis of, lacrimal sac tumor and, 199
Facial paralysis, 1014
Farber's lipogranulomatosis, retinopathy in, 1236
Fasciitis, nodular, of eye and adnexa, 1012
  originating in Tenon's capsule, 1012
Fat embolism, in eye, 194
Fibrinolysin, in experimental retinal vein occlusion, 282
  in traumatic hyphema, **1098**
Filariasis, loa-loa, retinopathy in, 200
  ocular, 996
First branchial arch, syndrome of, 994
FIXATION, eccentric, amblyopia and, 792
    treatment of, 187
    bilateral, in heterotropia, 792
    development of in occluded eyes, **853**
    in strabismic amblyopia, 601
    occlusion in, 187
    red filter to treat, 365
    strabismus and, obturator speed in treatment of, 364
  monocular, modified May ophthalmoscope to determine, **164**
  occlusion hypertropia and, 601
Flieringa scleral ring, 999
Fluids, intraocular, posterior drainage from vitreous, 1004
  ocular, amino acids in dog, 183
  serous accumulation of, choroidal detachment and, **813**
  subretinal cytology of, 607
    hyaluronic acid in, 1009
Fluorescein, angiography, 1009
  diffusion of, through corneal limbus, 794
  photography: See Photography
  studies, of drusen, **1**
    of fundus flavimaculatus, **1**
FOREIGN BODIES, endorbital extraocular, 1019
  glaucoma secondary to, **493**
  intraocular, 1237
    radiography technique for, 1019
  localization, by diascleral illumination, 804
    electromagnetic, 364
  magnetic, diascleral removal of, 201
    localization of, 201
  nonmagnetic, copper, removal of, 1019
    migration of, 201
  radiology in, 1237
  ultrasound to diagnose, 202
Fractures, blowout of orbit, 374
    early detection and treatment, **79**
    ocular complications of, **670**
  facial, in children, 202
  orbital floor, orbitography in, 197
Fuchs' syndrome, tonography in, 1227
FUNDUS, after retinal detachment surgery, 373
  albipunctatus, in Alport syndrome, 360
  changes, due to vascular disease, 600
    in blood disorders, 200
    in Purtscher syndrome, 1232
  diabeticus, 581
  evaluation, in diabetic retinopathy, clinical classification, **207**
  flavimaculatus, flourescein studies in, **1**
  in congenital heart disease, 1236
  in sickle-cell anemia, 377
  in telangiectatic erythema, **753**
  measurements, scanning densitometer for photographic, **689**
  peripheral, in retinoblastoma, **243**
  photography: See under Photography
  streaks, vermiform in collie ectasia syndrome, **728**
  xerophthalmicus, 804
Fungus infections, **1202**, **1204**
  cerebral and ocular involvement in, **900**
  corneal ulcers due to, fluorescent antibodies to diagnose, **892**
  of conjunctiva, **968**
  primary ocular, **150**
Fusion, in aphakic anisometropia, **764**
  frequency, of central vision, retrobulbar neuritis and, 1009

G

Gamma globulin, topical in epidemic keratoconjunctivitis, 366
Gantrisin, in trachoma, 999
Gaze, paralysis of, intranuclear ophthalmoplegia and, 1011
Gemmangioma, of orbit, 197
Genetics, eye and, **583**
  geriatric aspects of eye, 992
  pterygium and, 190
  3rd International Congress on Human, **1211**
Geniculate, lateral, projection discrete retinal lesions to, **918**
GLAUCOMA, absolute, X-ray therapy in, 191
  acute, choroidal detachment after, 191
  angle-closure, induced by miotics, **1063**
    dark-room test increasing tension in, **407**
    pathogenesis, 605
    postoperative tonography in, **487**
  attacks, mast cells in, 1228
  chronic simple, adaptometry in, 1005
    cortisone test in, 369
    heredity of, **1067**
    management, 578
    tonography in, 1005
    visual fields in, 370
  complication of choroidal detachment, **813**
  congenital, associated with congenital heart disease, **963**
    optic nerve cupping in, **507**

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments


GLAUCOMA *(continued)*
detection, 605
diagnosis, compression test in, 370
digital and instrumental tonometry in, 192
tonography and pressure cup in, 981
effect pilocarpine on, 797
electrocardiogram in, 1228
exophthalmos and, 191
experimental, in monkeys, 1229
familial simple, 605
filtering blebs, repair rupture of, 605
hemorrhagic, in retinal vein occlusion, **874**
optic nerve glioma and, 1232
hypersecretion, 191
tonography in, 1005
in husband-wife pairs, **635**
influence cataract on, 1230
influence norethynodrel with mestranol on, 1228
intraocular vascularity in experimental, 1229
iridoschisis and, **966**
lens extraction in, 370, 799
leukemic, 190
malignant, 606
medical therapy, Phospholine Iodide, 797
blood cholinesterase activity after, **834**
0.01% and 0.03%, **278**
0.03%, **1044**
Synapleg, 1230
open-angle, cortisone test and heredity of primary, **844**
experimental, **353**
mydriasis-induced, pigment liberation and, 1004
0.01% and 0.03% Phospholine Iodide in, **278**
therapy of, 1228
operations, basal excision and cauterization, 1229
basal vs total iridectomy, 1230
cataract extraction after, 1004
filtering, delayed chamber formation after, **640**
gonioscopic findings after, **509**
fistulizing, cataract operations after, 1231
Scheie, 1229
sclerotomy with cautery, **955**
ophthalmodynamometry in, 605
patients, personality of, 798
phacolytic, 368
cataract and, 1229
pigmentary, 25-year review, **499**
postural change and treatment of, **780**
prevention of, 1005
primary, diagnosis of, 190
fate eye after repeated operations for, 369
improvement visual functions in advanced, 798
in Negroes, surgery of, 798
open-angle, high myopia and, **1039**
retinal detachment and, 1010
vitamin E in, 1228
pseudoexfoliation and, family study, 1004
screening, water-provocative test in, 797
secondary, in Weill-Marchesani syndrome, **820**
occlusion retinal artery and, 190
poikilodermatomyositis and, 1018
to chronic uveitis, amyloid deposits in, **1025**
to diabetic retinopathy, hypophyseal stalk section and, **11**
to leukemic infiltration iris, 1227
to persistent hyperplastic primary vitreous, **1072**
traumatic, 1005
unilateral, pathogenesis, **493**
sodium ascorbate as osmotic agent in, 190
suspects, topical epinephrine in, **272**
tests, perilimbal suction, 606
provocative, 770
vacuum suction cup, 1229
water-provocative, in mass screening, 797
scleral rigidity during, 797
therapy, adrenalin eyedrops in, 796
anticholinesterase agents in, 1006
cholinergic agents in, 1006
conservative, 1230
doctor-patient relationship in, 1006

GLAUCOMA *(continued)*
therapy *(continued)*
glycerol, 370
osmotic agents in, 797
Tosmilen (demecarium bromide), 369
visual fields in, 191
visual strain and, 1005
vitreous in pathogenesis of, 605
Glioblastoma, of optic nerve, 609
Gliomas, of optic nerve, surgical management, **60**
Glue, biologic, to seal corneal wounds, 1003
Glycerol, electrocardiogram during, 185
in ocular hypertension, **629**
intravenous, ocular tension and, 1006
long-term oral, in glaucoma, 370
vitamin C and, to reduce ocular tension, **824**
Goldenhar syndrome, **678**
Goniomyostomy, 1229
Gonioscopy, after filtering glaucoma surgery, **509**
in iridencleisis, 1006
in megalocornea, 994
in retinoschisis, **683**
Gout, band keratopathy in, 366
complicating eye surgery, **755**
Graefe, von, advertisement to treat poor, 203
Granuloma, of lacrimal sac, **756**
plasmocytic, of ocular adnexa, 197
Granulomatosis, Wegener's, 200
Granulosis, Noguchia, 203
Graves-Basedow disease, eye symptoms in, 804
Groenbald-Strandberg-Tourraine syndrome, 993
deGrosz, Emil, 1238
Guillain-Barré syndrome, retrobulbar neuritis and, 609

**H**

Hand-Schüller-Christian disease, 576
Harada disease, 373, 578
Headache, 802
chronic, 1234
Heart disease, congenital, fundus in, 1236
ocular malformations with, **963**
Hemangioendothelioma, calcifying of orbit, **340**
Hemangiomas, of lacrimal gland, **343**
of orbit, 1012
Hematoma, under retinal pigment epithelium, **371**
Hemeralopia, ERG in essential, 993
retinitis pigmentosa without, 180
Hemophthalmos, after cataract surgery, 1231
HEMORRHAGE, choroidal detachment and, **813**
explusive subchoroidal, after cataract extraction, **536**
intraocular, in collie ectasia syndrome, **728**
orbital, simulating neoplasm, **528**
prophylaxis, during cyclodialysis, 1228
retinal, ERG in experimental, 372
in newborn, 1233
subarachnoid, 1233
subretinal, resembling choroidal melanosarcoma, 193
vitreous, ERG in experimental, 372
Hemianopia, homonymous, in congenital hydrocephalus, **251**
Sturge-Weber disease and, 801
Heparin, in experimental retinal thrombosis, **944**
HEREDITY, chronic simple glaucoma and, **1067**
congenital retinopathy and, 181
in blepharochalasis, 1014
in corneal dystrophy, 595
epithelial, 360
in infantile optic atrophy, **762**
in phacomatoses, 595
in primary open-angle glaucoma, cortisone test and, **844**
in pseudoexfoliation and glaucoma, 1004
in pterygium, 190
in Stargardt's disease, 360
in Weill-Marchesani syndrome, **820**
retinal detachment and, 993
role of, in eye diseases of aged, 992
X-chromosome and ocular abnormalities, 359
Hereford disease, 367

**Explanation: Numbers in boldface refer to Original Articles and Notes, Cases, Instruments**


Herpes simplex, corneal stroma disease due to virus of, **1136**
effect IDU on multiplication virus of, 788
keratoconjunctivitis due to, **907**
Herpes zoster ophthalmicus, 790, 995
Heterophoria: See Strabismus
Hippel-Lindau disease, recurrent, 198
Histiocytosis-X, 576
Histoplasmosis, amphotericin B in ocular, 1227
optic nervehead changes in, **454**
Homocystinuria, 784
Hormones, growth, role in diabetic retinopathy, **401**
Hydrocephalus, cortical blindness in congenital, **251**
Hyaloid membrane, adhesion anterior, cryolysis of, 1226
detachment of anterior, **1185**
Hydroa vacciniforme, carcinoma in, 1235
Hydrophthalmos, in Pierre-Robbin syndrome, 784
surgery in, 370
treatment of, 1230
Hyperoxia, effect on retinal vessels, **412**
Hypertension, drug therapy in, 1236
ischemic optic neuropathy and, **103**
ophthalmodynamometry in, 201
ophthalmoscopy in, 201
Hyphema, traumatic, 1019
estrogen failure in, **1098**
Hypnosis, in hysterical visual field loss, 1011
Hypoglycemia, neonatal, 200
Hypophyseal stalk section, ocular tension and, **11**
Hypoxia, effect on retinal vessels, **412**
Hysteria, visual field loss due to, hypnosis in, 1011

I

IDU, effect on multiplication herpes virus, 788
in dendritic keratitis, 367
in herpetic keratitis, 795
in vaccinia keratitis, 365
Illinois Eye and Ear Infirmary, sclerotomy with cautery at, **955**
Illumination, changes in, influence on eye, 361
diascleral, foreign body localization by, 804
diffuse, influence on optic pathways, 995
Immunology, to study endocrine exophthalmos, 200
IMPLANTS, in blowout fractures orbit, **79**
buried, in corneal edema, 365
collagen, in retinal detachment, 371
elastic foam polyurethane as, 197
plastic, premolded to repair orbital floor, 1012
silicone, in retinal detachment, 607
sponge, 196
Incontinentia pigmenti, retinal dysplasia and, **716**
retrolental membrane in, **330**
Industry, color vision requirements in electrical, 1019
INFANTS, blindness in, **546**
disorders nasolacrimal apparatus in, 1013
endogenous uveitis in, 1003
newborn, refraction of, 997
retinal hemorrhages in, 1233
optomotor response in, 360
premature, retinal detachment in retinopathy of, 800
visual response of, 789
sensory and oculomotor defects in, 365
20-thalidomide, eye findings in, 982
Inflammations, aqueous electrophoresis in intraocular, 1230
typhoid endotoxin in, 363
Influenza, uveitis and, 1003
INJURIES, after retinal detachment repair, **339**
alkali burns, autohemotherapy in, 1019
brain, blindness after, 1237
burns, corneoconjunctival, treatment, 804
ocular necrosis due to, 804
chemical, treatment of, 201
contusion, ciliary body detachment after, 378
lens luxation after, 1237
peripheral fundus changes with ocular, **465**
convergent strabismus due to, 1238
craniofacial, ophthalmic problems in, 1018
due to formic acid, 201
due to Nitrose compound, 203
INJURIES *(continued)*
electricity causing, 1007
facial, ophthalmic problems in, 1018
fractures: See Fractures
glaucoma secondary to, **493**
indirect, retinal detachment and, **1232**
lightning, hysterical blindness after, 1237
lime, lamellar keratoplasty in, 1238
treatment of, 202
medical-legal aspects of, 202
ocular, 1019
penetrating, blood biochemistry in, 202
of vitreous, 1237
photic, to rabbit retina, 1011
retinal angiopathy after, 202
retinal contusion in, 377
skull, blindness after, 1237
vision after, 378
INSTRUMENTS, apparatus to study corneal endothelium, **19**
attachment for Goldmann perimeter, **885**
chart for dynamometry, 1000
clip for encircling procedures, **151**
computer to analyze evoked occipital potential, 1000
contact glass for biomicroscopy, 186
cryoextractor L65, 1000
cryomanipulator, 364
cryosurgical, for retinal tears, 364
cryounit, 1000
diagnostic corneal contact lenses, **159**
diamond knives for ocular surgery, **16**
double-pronged iris hook, for cyroextraction, **977**
double-purpose forceps, for cataract surgery, **344**
drape for eye surgery, 601
Flieringa scleral ring, 999
for measuring anterior chamber depth, **7**
for measuring corneal thickness, **7**
for repair lacrimal canaliculus, **974**
for retinal detachment surgery, **976**
for thermoelectric cryosurgery, 601
Goldmann perimenter, in diagnosis, 791
hand applanation tonometer, **1208**
Heinsius scotopticometer, 186
iris retractor for cryosurgery, **150**
keratophore, 186
lid-clamp retractor, **759**
lid speculum, 364
May ophthalmoscope modified, **164**
microtransfiguration tonometer, **1177**
muscle hook for posterior globe, 1000
needle holder, 1000
Radiuscope® in contact lens inspection, **538**
refraction diagnostic unit, **157**
scanning densitometer, for photographic fundus measurements, **689**
slitlamp ophthalmoscope, **161**
suture forceps for keratoplasty, **158**
telescopic loupe, **344**
TV synoptophore, 1000
tonometer, electronic applanation, clinical evaluation, **263**
visual field models, 186
Insulin, action on lens in aqueous, 581
Intoxications, color vision disturbances in, 998
Intraocular lenses, in aphakia, 997
Ion transport, of ciliary body, **1128**
Iridectomy, basal vs total in glaucoma, 1230
cataract extraction and, 1007
Iridencleisis, gonioscopy in, 1006
Iridocyclectomy, in cancer anterior uvea, 1017
Iridoschisis, 604, **966**
IRIS, angioma of, 803
atrophy, due to electric arc, **153**
double-pronged hook for, in cryoextraction, **977**
hypoplasia, in rubella syndrome, **222**
in rubella syndrome, **236**
leiomyoma of, 1236
leukemic infiltrates in, 1227
melanoma of, 604
secondary malignant, 1236

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments


IRIS *(continued)*
siderosis of, 604
stroma, atrophy of, 604
torsion of, 1003
width of, age and, 992
Iron-chelating agent, deferoxamine, 791
Isoniazid variations, **396**

J

Jackson, Edward, Memorial Lecture XXII, **396**

K

Keratectomy, stromal in high myopia, 795
KERATITIS, dendritic, IDU in, 367
due to Allescheria boydii, **1202**
filiform, 603
herpetic, IDU in, 795
measles, vaccine and immune globulin in, 602
nummular, due to caterpillar, 1002
vaccinia, IDU and VIG in, 365
Keratoacanthoma, **1205**
of eyelids, 376
KERATOCONJUNCTIVITIS, adenovirus, hospital epidemic of, 366
epidemic, 189, 793, 1002
cytologic changes in, 793
enzyme activity in, 793
herpes simplex, **907**
molluscum contagiosum eyelids and, 793
Keratoconus, amyloid deposits in, **1025**
contact lens or keratoplasty in, 793
in ectopic dermatitis, 200
Keratoglobus, blue sclera and, 360
Keratoma palmoplantare dissipatum, 188
Keratomycosis, aspergillina, 793
Aureobasidium, antifungal agents in, 362
Keratopathy, band, in gout, 366
idiopathic, 603
KERATOPLASTY, cataract extraction combined with, **556**
complications of, 1002
contact lens or, in keratoconus, 793
donor tissue for, preservation in tropics, 980
grafts, illness of, 794
opaque, retrocorneal membrane and, 603
persistence donor collagen in, 189
replacement globulin fraction in hetero-, 787
suturing of, 189
hetero-, globulin fraction in, 366
in alkali burns cornea, 978
in children, 602
in keratitis due to Allescheria boydii, **1202**
lamellar, in lime injuries, 1238
retrocorneal membrane after, 603
suture forceps for, **158**
vacuum keratophore for, 186
Keratoprostheses, acrylic, 792
elastic, 366
plastic, 794
Kuhnt-Szymanowski procedure, in ectropion and canthoplasty, **533**

L

LACRIMAL APPARATUS, 197
anatomy bony nasolacrimal canal, 375
canaliculi, reconstruction of, 198
vein graft in, **676**
repair injuries to, **974**
duct, untubation of, in dacryocystorhinostomy, 1015
ductule, anomalous, 802
gland, adenoma of, 375
cysts of, 375
hemangioma of, **343**
passages, construction of, 1014
punctum, reconstruction of, vein graft in, **676**
sac, granuloma of, **756**
reticulosarcoma of, 199
surgery of, 979
tuberculosis of, 793
secretory system, anatomy and physiology, **47**
treatment of, **47**
Laser, clinical use, 791
CW, temperature rise and photocoagulation rabbit retinas exposed to, **524**
coagulation, histology human ocular, 1233
He-Ne, retinal saturation effect measured by, **659**
pulsed ruby, retinal threshold lesions by, **664**
Laughter, oculo-palpebral movements on, 373
Laurence-Moon-Bardet-Biedle syndrome, 993, 994
Leber's congenital amaurosis, **986**
Leber's disease, recognition of, 993
Leber's hereditary optic atrophy, 180
Leiomyoma, of iris, 1236
LENS, **799**
action insulin on, in aqueous, 581
changes, after prolonged chlorpromazine, 998
during oral dimethyl sulfoxide, 998
in accommodation, 789
development of chick, 994
dielectric properties bovine, 182
enzyme activity of, influence age on, 798
epithelial cells of, long-term cultures of, 787
epithelium, lysosmal enzymes in bovine, 995
mitotic control rabbit, 596
extracellular space of, 181
glycolytic enzymes in rabbit, 181
growth, outer eye coat and, 180
in galactose-fed rats, 182
in rubella syndrome, **236**
luxation, traumatic, 1237
metabolism, in muscular dystrophy, 597
opacities, Phospholine Iodide therapy and, **619**
proteins, of teleost, 598
soluble, filtration of, 183, 192
pseudoexfoliation of, 798
in Denmark, 370
xylose metabolism in rat, 183
Lenticonus, bilateral, 595
Leptospirosis, 367
Leukemia, acute, nodular iritis in, 368
glaucoma and, 190
ocular manifestations of, 1236
Leukocytes, phagocytosis of, influence scopolamine and heat on, **796**
Leukoses, ocular manifestations of, 1018
Light coagulation: See Photocoagulation
Light, colored, effect on presbyopia, 996
eosinophil count and, 361
Limbus, dermoid tumor of, intraocular extension, 1236
diffusion fluorescein through corneal, 794
Lipemia retinalis, in alcoholic, 1231
Lipidoses, retinopathy in lipogranulomatosis, 1236
Lipotriad, in senile macular degeneration, 800
Loupe, improved telescopic, **344**
Lowe's syndrome, 993
Luminance, functional amblyopia and, **511**
high, binocular facilitation discomfort with, 801
Luminosity sense, in macular alterations, 1232
Lung, carcinoma of, ocular manifestations, 1016
Lymphoma, malignant in African children, 376
of central nervous system, 196

M

Macroglobulinemia, ocular changes in, 377
MACULA, alterations in, ERG and luminosity sense in, 1232
changes, after cataract extraction in elderly, **1145**
degeneration, retinal vasculature in, 372
senile, Lipotriad therapy in, 800
diseases, occlusion retinal artery and disc in, 1008
dystrophy, 189
of corneal, electron microscopy of, **436**
lesions, visual acuity and, 1233
visual fields and, 1233
retinal axons in area of, **926**
Madribon, in trachoma, 999
Malformation syndrome, cryptophthalmia and, 785
Malingering, determining visual acuity in, 184
Mannitol, EKG during, **185**
in ocular hypertension, **629**
preoperative use, 797
use of, **999**

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments


Marcus Gunn phenomenon, 609
Maxilla, malformations of, astigmatism and, 789
Medicine, statistics and, 805
Meetings, Conferences, Symposia, 166, 346, 576, 769, 978, **1211**
Megalocornea, EEG in, 994
  gonioscopy in, 994
  mosaic dystrophy cornea and, 1002
Meibomian glands, carcinoma of, 376
Melanocytoma, of optic disc, 371
MELANOMAS, benign (nevi), 198
  congenital, of anterior uvea, 1227
  malignant, 1016
    of choroid, 1236
      in pregnancy, **910**
      radiotherapy of, 803
    of cornea, 198
    of orbit, recurring after 28 years, 1236
    secondary, of ciliary body, 1236
      of iris, 1236
  of choroid, overabundance uveal ganglion cells in, **1034**
  of iris, 604
  of uvea, 1016
  surface, of eye, 803
Melanosarcoma, choroidal hemorrhage resembling, 193
Melanosis, cancerous, 376
Memphis Society of Ophthalmology, **576**
Meningiomas, intracranial, optochiasmal syndrome and, **802**
  primary, of orbit, 1016
Meningitis, tuberculous, eye changes in, 372
Methohexital sodium, for sedation of children, **38**
Miami Ophthalmological Society, 770, 982
Microcephaly, chorioretinopathy and, 785
Microcornea, associated with congenital heart disease, **963**
  craniofacial dysplasia and, **697**
Microphthalmos, cryptophthalmos and, 360
Microsurgery: See Surgery
Microsymptoms, diagnosis and, 186
Microzonuloscopy, **1185**
Miotics, inducing angle-closure glaucoma, **1063**
  iridoschisis after use in glaucoma, **966**
Molluscum contagiosum, of eyelid, 793
Mono-amine oxidase activities in retina, 361
Morax, Victor, respects of foreign students, 805
  work of, 805
Motor apraxia, ocular in twins, 1233
Motor vehicles, ophthalmic norms for drivers of, 1020
Movements of eye, abnormal in ocular dysmetria, 1234
  compensatory, vision and, 598
  in ataxia-telangiectasia, **1118**
  oculomotor apraxia and, 196
Mucocele, anterior ethmoidal, **160**
  of orbit, 196
Mucopolysaccharides, 181
  in macular dystrophy cornea, **436**
  of cornea, 183
Mucormycosis, cerebral, ocular involvement in, **900**
  of orbit, 1012
Multiple sclerosis, arachnoid in, 801
  blood vessels brain in, 801
  blood vessels spinal cord in, 801
  retinal vein changes in, 373
  uveitis in, **540**
MUSCLES, extraocular, fast and slow fibers in, **478**
    paralyses, ocular tension changes and, 368
    wound healing after operation on, 1001
  inferior oblique, pseudoparesis of, 365
  operations, tenotomy external rectus, 791
  orbicularis, measuring function of, 1235
  palsies, diagnosis, 188
    electromyography to analyze, 187
    lateral rectus, muscle transplant for, 792
  rectus, role external in saccadic curvature, 980
  superior oblique, action of, 601
  surgery, overcorrection in, treatment of, 1001
    partial tenotomy (Gonin), 188
  vertical, common palsies of, 767
Myasthenia gravis, 576
Myasthenic syndrome, in carcinoma lung, 1016
Mycoplasma organisms, isolated from eye, **1125**
Mydriasis, pigment liberation induced by, 1004
Myoblastoma, granular-cell, of anterior uvea, 199
Myociliary dynamics, 994
Myocosis, exogenous, 362
MYOPIA, high, associated with congenital heart disease, **963**
    primary open-angle glaucoma and, **1039**
    stromal keratectomy for, 795
  progressive, prevention of, 997
  transient, ultrasound study of, 996
Myositis, chronic orbital, **292**


**N**


Nagel anomaloscope, to examine color vision, 600
Nasolacrimal apparatus, in infants and children, 1013
  obstructions, silver probe for, 1015
  probing, **780**
Needles, ultrasharp disposable, **173**
Negroes, primary glaucoma in, surgery of, 798
Nerves, facial, paradoxic lacrimation in paralysis of, 802
  sympathetic, false transmitters from, 980
Neurilemmoma, of orbit, 803
Neuroepithelioma, of ciliary body, 1017
Neuroma, amputation, after pterygium excision, **569**
  of orbit, 1013
Neuro-ophthalmology, a review, 195
  diagnosis, 1234
    brain scanning in, **1076**
    perimetry in, 195
Neutrons, cataract induced by, 799
Nevi, of choroid and ciliary body, 198
  of choroid, visual field defects with, **914**
New York Society for Clinical Ophthalmology, **349**
News Items, 205, 379, 610, 806, 1021, 1239
Night blindness, visual-evoked cortical response in, **1166**
Nitrose, compound of, toxic effects of, 203
Nystagmus, associated with congenital heart disease, **963**
  optokinetic, in infants, 360
    to determine visual acuity, 184


**O**


OBITUARIES:
  Baird, James Mason, **172**
  Somerville-Large, L. B., **586**
  Valdeavellano, Jorge, **779**
Occlusion hypertropia, 601
Ocular balance, latent disturbances of, 188
Ocular rigidity, during water-drinking test, 797
  effect tonography on, 978
  influence on astigmatism, 996
OCULAR TENSION, after superior cervical ganglionectomy, 182
  applanation, in husband-wife pairs, **635**
  aqueous drainage and, 596
  changes in, during weight lifting, 605
    extraocular muscles paralyses and, 368
  consensual, 369
  corneal regeneration and, 1226
  decay curve, to evaluate outflow resistance, 981
  effect increased on retinal differential thresholds of Bjerrum area, **1049**
  effect sclerotomy with cautery on, **955**
  glycerol-vitamin C to reduce, **824**
  hypophyseal stalk section and, **11**
  increased, in corneal disease, 1231
    osmotic agents in, **629**
  influence Alupent-Silomat on, 796
  influence epinephrine salts on, 1228
  influence narcotic analgesics on, 1004
  influence on ERG, 787
  influence Viadril on, 796
  intravenous glycerol and, 1006
  normal, 798
  retinal differential thresholds and, 604
  steroids and, 191, 192, 1004
Oculoauriculovertebral dysplasia, **678**
Oculocardiac reflex, source error during ophthalmodynamometry, **601**
  under local anesthesia, 792

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments


Oculomotor apraxia, congenital, 196
Oculomotor defects, in infancy and childhood, 365
Oculomotor disturbances, bilateral, 1011
Ointment, corneal damage due to, 791, 794
Ophthalmia nodosa, 1002
OPHTHALMIC, Lectures, XXII Edward Jackson Memorial, **396**
XX Francis I. Proctor, **412**
meetings, AMA, 1966, **350**
AOS, 1966, **170**
ARO, June 1966, **351**
International Congress, **777**
International Congress on Contact Lenses, **346**
Japanese Ophthalmological Congress, **585**
symposium on biochemistry of eye, **1215**
3rd International Congress on Human Genetics, **1211**
Toronto research, 978
societies, Verhoeff, **347**
Ophthalmodynamography, 196
Ophthalmodynamometry, 196
in disturbances ocular blood supply, 1008
in glaucoma, 605
in hypertension, 201
oculocardiac reflex source error during, 601
Ophthalmologist, education of, 204
Ophthalmology, and the future, 203
Swiss, 1961, 203
Ophthalmomyiasis, 183
Ophthalmoplegia, in basilar-vertebral artery disease, 1235
intranuclear, paralysis horizontal gaze and, 1011
myasthenic pseudo- internuclear, 374
unilateral internuclear, 609
Ophthalmoscope, modification May, **164**
slitlamp, **161**
Ophthalmoscopy, direct, in myopic astigmatism, 186
in hypertension, 201
indirect, in retinal detachment, 601
Optic disc, angioglioma of, 198
changes in, after cataract extraction in elderly, **1145**
cupping, optic atrophy and, 1229
melanocytoma of, 371
OPTIC NERVE, 608
atrophy, in congenital hydrocephalus, **251**
infantile hereditary, **762**
infantile primary of Behr, 784
Leber's hereditary, 180
coloboma, cyclopia with cystic, 359
cupping, in congenital glaucoma, **507**
ERG after section of, **287**
glioblastoma of, 609
glioma of, hemorrhagic glaucoma with, 1232
surgical management of, **60**
head, changes around in ocular histoplasmosis, **454**
ischemic changes in, **103**
receptive fields of ground squirrel, 598
Optic neuritis, 1010
DL-penicillamine and, 609
retrobulbar: See Retrobulbar neuritis
Optic neuropathy, alcohol-tobacco, 1011
ischemic, **103**
Optic pathways, influence diffuse illumination on, 995
Optical components, developmental changes in, in twins, 785
Optical determination, axial length eye in aphakia, **1194**
Opticociliary anastomoses, after retinal vein occlusion, **874**
Optochiasmal syndrome, intracranial meningiomas and, 802
ORBIT, 196
amyloidosis of, 1013
anterior ethymoidal mucocele presenting in, **160**
blowout fractures of, 374
early detection and treatment, **79**
ocular complications, **670**
chronic myositis of, **292**
complications, in cryptodontia, **1013**
in sinusitis, 1012
decompression, in thyroid exophthalmos, **1089**
diseases of, 802
ORBIT *(continued)*
floor of, orbitography in fractures of, 197
repair with premolded plastic implant, 1012
gemmangioma of, 197
hemangioendothelioma, calcifying, of, **340**
hemangiomas of, 1012
hemorrhage of, simulating tumor, **528**
hydatid cyst of, 197
malignant melanoma of, recurring after 28 yrs, 1236
meningioma of, 1016
metastasis to, from urinary bladder, 198
mucoceles of, 196
mucormycosis of, 1012
neurilemmoma of, 803
neuroma of, 1013
osteoclastoma of, 199
osteomas of, 375
phlebography of, 1013
pseudotumor of, 374
radiotomography of, 1013
reconstructive surgery of, 979
sarcoma of, 1016
site metastases of malignant tumors, 1012
superior fissure syndrome of, **163**
tumors of, 802
Orbitography, in fracture orbital floor, 197
to diagnose anterior ethmoidal mucocele, **160**
Orbitonometry, 370
Osmotic agents, glycerol-vitamin C as, **824**
in glaucoma, 797
in postoperative cataract complications, 370
influence on vitreous, **220**
therapy with, **629**
Osteoclastoma, of orbit, 199
Osteogenesis imperfecta, ocular anomalies in, 993
Osteomas, of orbit and paranasal sinus, 375
Oxygen, hyperbaric, ERG manifestations of, 1237
retinal vessel growth and development and, **412**


**P**


Palpebral fissure, **73**
plastic surgery of, 375
Papilledema, complicating malignant exophthalmos, 577
ischemic, 799
Papillitis, pseudo-, in arteriosclerosis, 193
vascular, 372
Parasites, filaria, 996
in eye, 183
Parinaud syndrome, 374, 1235
associated with congenital heart disease, **963**
Parry-Romberg syndrome, 801
Pars plana ciliaris, in ocular contusions, **465**
tumors originating from, 375
Pars lanitis, 796
Patients, of medical specialists and practitioners, 1019
Pemphigus, symblepharon conjunctiva due to, 1002
Penicillins, semisynthetic, 599
Penimepicycline, in ocular toxoplasmosis, 791
Pericytes, in diabetic retinopathy, 607
intramural and extramural, 594
Perimeter, Goldmann, attachment for, **885**
Perimetry, clinical, 1000
color, with Goldmann apparatus, 791
in neuro-ophthalmologic diagnosis, 195
static quantitative, **885**
Phacomatoses, hereditary, 595
Phacometry, infrared, 789
Pharmacogenetic drugs, **396**
Pharmacology, ocular, new dimensions in, **396**
Pheochromocytoma, hypertensive retinopathy in, 1233
Phlebography, of orbit, 1013
Phospholine Iodide, blood cholinesterase activity after, **834**
effect in glaucoma, 797
in refractive errors, **303**
lens opacities and therapy with, **619**
use of, 0.01% and 0.03% in glaucoma, **278**
0.03% in glaucoma, **1044**
PHOTOCOAGULATION, collagen tape and, in retinal detachment, **799**

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments


PHOTOCOAGULATION *(continued)*
compared to cryosurgery, 800
CW laser and, **524**
in choroidal tumors, 1016
in diabetic retinopathy, **459**, 607
proliferative, 372
in Eales' disease, 607
in retinal detachment, 195
laser, histology human ocular, 1233
See also Laser
ocular effects of, 1238
Photography, fluorescein, of fundus, 1000
to study central serous chorioretinitis, 801
fundus, after retinal detachment surgery, 373
spectral reflectance, 364
slitlamp, 186
to document experimental retinal thrombosis, **944**
to document progress keratoacanthoma, **1205**
to measure fundus, scanning densitometer for, **689**
Photoreceptors, electron microscopy of, 182
Photoskiascopy, binocular, **187**
Phycomycosis, cerebral, ocular involvement in, **900**
See also Mucormycosis
Pierre-Robin syndrome, hydrophthalmos in, 784
Pigeons, experimental ocular cryptococcosis in, **95**
Pilocarpine, effect in glaucoma, 797
Pituitary-adrenal axis, 804
Pituitary stalk transection, effects of, 195
Plastic surgery, of palpebral fissure, 375
silicone injections in, 196
Pleoptics, amobarbital combined with, **1171**
Pleoptophore, to treat amblyopia, 365
Poikilodermatomyositis, retinal hemorrhage, glaucoma and, 1018
Poisoning, carbon-dioxide, cerebro-ocular effects, 1235
Posture, glaucoma treatment and change in, **780**
Prednisone, in exogenous endophthalmitis, 999
Pregnancy, contact lenses and, 996
malignant melanoma choroid in, **910**
Presbyopia, 599
effect colored light on, 996
Phospholine Iodide in, **303**
scotomas in, 997
Primaquine sensitivity, **396**
Proctor, Francis I. Lecture XX, **412**
Prostheses, durable mobility of, surgery for, **643**
glass, implosion of, **154**
keratoprostheses: See Keratoprostheses
ocular, reconstruction conjunctival cavity for, 1013
to dilate scarred conjunctival sac, 1227
Pseudocholinesterase, **396**
Pseudoexfoliation, anticholinesterase drugs and, **613**
glaucoma and, family study of, 1004
in Denmark, 370
Pseudomonas aeruginosa, chemical agents against, 184
Pseudopapillitis, vascular, **103**
Pseudoptosis, craniofacial dysplasia and, 697
Psychology, of hysterical amblyopia, **1106**
Psychosomatics, ophthalmic, 204
Psyquil, a sedative, 185
Pterygium, amputation neuroma after excision of, **569**
genetics of, 190
operation for, 603
surgery of, irradiation after, 189
Ptosis, astigmatism and, 1014
correction of, silicone sling in, **521**
in carcinoma of lung, 1016
operation, modified Friedenwald-Guyton, 1015
palpebral spring technique in, 1014
surgery, entropion secondary to, 1014
PUPIL, behavior of in lesions afferent pathways, **860**
block, in primary angle-closure glaucoma, tropine drugs and, **487**
defects, afferent, **860**
dynamics of, during binocular rivalry, 361
reactions, paradoxic, 1234
response, after superior cervical ganglionectomy, 182
asymmetry of, **860**
size, age and, 992
tonic, in carcinoma lung, 1016
Purtscher's syndrome, after head and chest trauma, 202
fundus changes in, 1232


**R**


Radiation, beta, in anterior segment diseases, 791
therapy, after pterygium surgery, 189
Radioactive isotopes, $P^{32}$ in diagnosis malignant tumors, 791
to study cornea, 786
uptake, thiamine propyl disulfide $S^{35}$, 786
Radiology, in diagnosis supersellar lesions, 802
Radiotherapy, of malignant melanoma choroid, 803
Radiotomography, of orbit, 1013
Radiuscope®, in contact lens inspection, **538**
Rayleigh's equation, in examination color vision, 600
Reading, speed, theory and techniques, **334**
REFRACTION, changes in due to accommodation, 789
diagnostic unit for, **157**
errors of, Phospholine Iodide to manage, **303**
hyposecretion tears and, 362
in astigmatism, 184
in axially symmetric eyes, 184
infrared phacometry in, 789
of newborn, 997
Reticulo-endotheliosis, benign, 367
RETINA, 608
alterations after alloxan, electron microscopy of, 1232
angiomatosis of, **1231**
angiopathy, traumatic, 202
arterioles, in amaurotic family idiocy, 785
ARTERY, occlusion, 1010
fluorescein study of, 194
glaucoma secondary to, 190
in juvenile macular disease, 1008
weather and, 1011
orthostatic hypotension in, 194
pressure, in diabetic retinopathy, 1231
axons, in macular area, **926**
breaks, **99**
chorioretinal lesions predisposing to, 608
changes, after exposure to CW laser, **524**
in diabetes, long-term study, 1017
in human cytomegalovirus infection, **1153**
coloboma, in collie ectasia syndrome, **728**
contusion, in eye injuries, 377
cryopexy of, 372
cryosurgery of, thermoelectric, 601
DEGENERATION, cystoid, 801
lattice, **99**
pigmentary, ERG in, 1233
proteins and lipoproteins in, 1010
sector-shaped, 194
unilateral, **578**
DETACHMENT, 581, 607
after psychic trauma, 195
analysis 200 cases, 799
anterior hyaloid membrane detachment and, **1185**
cataract and, 606
cataract extraction after, 1009
cerebrospinal fluid implantation in, 800
choroidal tumor and, 376
collagen implants in, 371
cryosurgery in, 371
encircling procedure in, 371
clip for, **151**
ethyl chloride spray in, 608
experimental study of, **561**
familial, 608
hereditary, 993
in collie ectasia syndrome, **728**
in ectopic dermatitis, 200
in retinopathy prematurity, 800
indirect ophthalmoscopy in, 601
operations, Arruga method, 195
failures in, 608
preparatory, 194
ringing of eyeball in, 1233
photocoagulation in, 195
and collagen tape, 799

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments


RETINA *(continued)*
DETACHMENT *(continued)*
primary glaucoma and, 1010
prophylaxis of, 1010
reconstituted collagen in, 1010
repair, trauma after, **339**
scleral buckling in, 609
experimental, **313**
silicone bands in, 979
silicone implants in, 607
spontaneous resolution of, 1008
surgery, complications of, 609
corneal protection during, **760**
corneal sensitivity after, 1226
corneal wound healing after, 366, 793
fundus photography after, 373
instrument for, **976**
results in, 1010
trauma and, 1232
treatment of, 1009
dialysis, in ocular contusions, **465**
differential thresholds, effect increased on Bjerrum area, **1049**
ocular tension and, 604
diseases, vascular, 1232
dysplasia, incontinentia pigmenti and, **716**
dystrophy, eye abnormalities with, 181
elements of, topography of, **926**
epithelium, pigment, in rubella syndrome, **236**
fold, proliferating in rubella syndrome, **222**
hemorrhage, ERG in experimental, 372
in newborn, 1233
poikilodermatomyositis and, 1018
hyperlipemia of, in alcoholic, 1231
in leukemia, 1236
inner limiting membrane of, detachment and, 608
integration, for extrafoveal distances, 995
larval granuloma of, 599
lesions, exudative, 800
lateral geniculate projection for discrete, **918**
metabolism, effect sodium salicylate on, 182
microsomes in vitamin A and, 182
mono-amine oxidase activities in, 361
neovascularization, in retinoschisis, **683**
oscillatory potential in, 786
pars ciliaris, tumor originating from, 375
periphery of, routine screening of, **99**
photic injury to rabbit, 1011
protein-polysaccharide composition of, 995
rhodopsin cycle of rabbit, 599
saturation effect in, measured by He-Ne laser, **659**
specialized receptive fields, of cat, 598
surgery, choroidal detachment and, **813**
visual acuity after, 1009
tears, cryosurgical unit for, 364
temporal raphe of human, **926**
threshold lesions in, after pulsed ruby laser, **664**
thrombosis, experimental, **944**
vascular changes in diabetes, reversal of, 199
vascular system of cat, 594
vasculature, in macular degeneration, 372
VEIN, changes in multiple sclerosis, 372
obstruction, scotoma due to, 608
occlusion, 194
anticoagulants in, **874**
experimental, fibrinolysin in, **282**
glaucoma secondary to, **493**
of central, 1010
thrombosis, therapy of, 1008
VESSELS, anatomy of, 799
developing, 594
in collie ectasia syndrome, **728**
injection-digest method to study, 600
oxygen in growth and development of, **412**
topography of, 799
visual receptive fields in cat, 786
RETINITIS, atrophic, 1232
pigmentosa, Complamine in, 363
ERG in, 180
laboratory studies in, 800
RETINITIS *(continued)*
PIGMENTOSA *(continued)*
unilateral, 1011
without hemeralopia, 180
punctata albescens, ERG in, **125**, 372
Retinoblastoma, 375
calcifying agents to treat, **573**
in Denmark, 199
peripheral fundus in, **243**
spontaneous regression of, **573**
treated according to Reese's criteria, 803
urine excretion VMA and HVA in, **239**
Retinochoroiditis, toxoplasmic, spiramycin in, 606
Retinociliary anastomoses, after retinal vein occlusion, **874**
RETINOPATHY, chloroquine, 998
experimental, 600
congenital hereditary, 181
dermatomyositis and, 200
diabetic: See Diabetic retinopathy
hypertensive, in pheochromocytoma, 1233
in Farber's lipogranulomatosis, 1236
in loa-loa filariasis, 200
of prematurity, retinal detachment in, 800
rubella, **222**
Retinoschisis, 373, 581
juvenile, **683**
Retrobulbar neuritis, 1232
critical fusion frequency in, 1009
Guillain-Barré syndrome and, 609
Retrobulbar tissue, glycosaminoglycans of, 597
Retrolental fibroplasia, amyloid deposits in, **1025**
Retrolental membrane, in incontinentia pigmenti, **330**
Rheometry, applanation, to measure aqueous outflow, **89**
Rubella syndrome, embryologic and ocular pathogenesis, **236**
ocular aspects of, 359, 784
virus in cataract in, **233**
virus recovery in, **222**
Rubeosis iridis, hypophyseal stalk section and, **11**

S

Sarcoma, alveolar soft part orbit, 1016
of choroid, clinical evaluation, 1017
of ciliary body, clinical evaluation, 1017
Sclera, blue, keratoglobus and, 360
Scleral buckling, 800
experiments in, **313**
in retinal detachment, 609
See also Retina, detachment
Scleral rigidity: See Ocular rigidity
Sclerosis, multiple: See Multiple sclerosis
tuberous of Bourneville, 1010
Sclerotomy, cautery and, in glaucoma, **955**
Scotomas, acquired and physiologic, 362
in retinal vein obstruction, 608
relative, in ametropia and presbyopia, 997
Scotopticometer, 186
Sedation in children, methohexital sodium for, **38**
Serum thrombotic accelerator, in experimental retinal thrombosis, **944**
Siderosis, deferoxamine in ocular, 363, 791
ERG in ocular, 1238
of iris, 604
SILICONE, bands in encircling procedures, 979
in strabismus surgery, 1001
injections, in experimental retinal detachment, **561**
in plastic surgery, 196
plate, corneal dissection due to, **574**
semipermeable sheet of, to protect cornea during retinal detachment surgery, **760**
sling, in ptosis correction, **521**
sponge, implants of, 196
to replace vitreous, 1007
Silomat, influence on ocular tension, 796
Sinus, cavernous, thrombosis, CNS lymphoma mimicking, 196
Sinuses, paranasal, osteomas of, 375
Sinusitis, orbit-ocular complications of, 1012
Skin-window responses, in uveitis, **648**

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments


Skull, injuries, blindness after, 1237
Slitlamp, ophthalmoscope, **161**
  photography, 186
Smallpox, epidemic in Wroclaw, 804
  ocular complications after vaccine, 376
Somerville-Large, L. B., **586**
Spatial perception, 786
SPECTACLES, bifocal, Benjamin Franklin's, 805
  contact lenses: See Contact lenses
  for visually handicapped, 997
  intraocular lenses: See Intraocular lenses
  plastic temporary cataract, 364
  to correct corneal astigmatism, 997
  vertex power of, 997
Speed-reading, **334**
Spiramycin, in toxoplasmic retinochoroiditis, 603
Sporotrichosis, primary ocular, **150**
Stains, fluorescent, in diagnosis fungus corneal ulcers, **892**
Staphyloma, contractile peripapillary, 784
Stargardt disease, ERG and EEG in, 359
  inheritance of, 360
Statistics, medicine and, 805
STEROIDS, corneal damage due to, 602
  eye damage due to, 363
  in eye diseases, 363
  retrobulbar, in temporal arteritis, **693**
  subconjunctival, corneal hypersensitivity and, 794
  topical, cataract after, 192
    ocular tension and, 191, 192
STRABISMUS, amblyopia and, 768
    eccentric fixation in, 601
      developing in occluded eyes, **853**
  A and V syndromes, 1001
  concomitant, surgery of complex, 1001
  convergent, associated with congenital heart disease, **963**
    due to injury, 1238
    treatment of, 792
  divergent, tenotomy external rectus in, 791
  early diagnosis of, 188
  eccentric fixation, bilateral in heterotropia, 792
    obturator speed in treating, 364
  exotropia, intermittent, 576
  heterophoria, incidence of, 1001
  in early childhood, 188
  oblique, 364
  operations, results on binocular vision, 602
  prism to manage vertical incomitance, 620
  suppression in, elimination of, 1001
  surgery for, oculocardiac reflex and, 792
    overcorrections in, 792
    silicone in, 1001
  vertical deviations, 1001
  visual sensory functions and, 365
Streptococci, hypersensitivity to beta-hemolytic, 788
Sturge-Weber disease, homonymous hemianopia and, 801
  surgery in, 359
Subarachnoid hemorrhage, 1233
Suprasellar lesions, 802
  radiologic diagnosis of, 802
  visual fields in, 802
SURGERY, at end of life, 203
  diamond knives for ocular, **16**
  drape for eye, 601
  for ectropion, **298**
  gouty arthritis complication of eye, **755**
  microsurgery, of anterior segment, 187
  of intra- and suprasellar tumors, 1234
Symblepharon, Maxwell's operation in posterior, 802
  pemphigoid, of conjunctiva, 1002
Sympathetic ophthalmia, 367
  amyloid deposits in, **1025**
  methotrexate in, 1227
Sympathetic system, adrenergic, **405**
  influence blockage aqueous proteins on, 1004
SYNDROMES: Alport, fundus albipunctatus in, 360
  Alström-Olsen, **181**
  A-V, 1001
  anterior chamber, 369
SYNDROMES *(continued)*
  arteriosclerotic chiasmal, 609
  Behr, 784
  Bloch-Sulzberger, **330**
  Bloom's, **753**
  collie ectasia, **728**
  dysmelia, ocular malformations in, 785
  Ehlers-Danlos, 359
  eponyms and, 805
  Fuchs', tonography in, 1227
  Goldenhar, **678**
  Groenblad-Strandberg-Tourraine, 993
  Guillain-Barré, retrobulbar neuritis and, 609
  Laurence-Moon-Bardet-Biedl, 993, 994
  Lowe's, 993
  malformation, cryptophthalmia and, 785
  myasthenic, in carcinoma of lung, 1016
  ocular, in ectopic dermatitis, 200
  of blue sclera and keratoglobus, 360
  of chiasmal arachnoiditis, 195
  of first branchial arch, 994
  optochiasmal, 802
  Parinaud, 374, 1235
    associated with congenital heart disease, **963**
  Parry-Romberg, 801
  Pierre-Robin, **784**
  Purtscher, **1232**
  rubella, embryology and ocular pathogenesis, **236**
    ocular aspects of, 359, 784
    virus in cataract in, **233**
    virus recovery in, **222**
  superior orbital fissure, **163**
  vitreous-tug, **856**
  Vogt-Koyanagi-Harada, 1003
  Waardenburg, 360, 785
  Weill-Marchesani, **820**
  Werner's, **1012**
Swiss ophthalmology, 1961, 203


T


Talpa europaea, vision in, 594
Tarsorrhaphy, Eastman 910 monomer for, **953**
Tarsus, disparity, surgery for, 375
  heterotopic ossification of, 803
Tear-gas, ocular damage due to, 378
TEARS, crocodile, **802**
  hyposecretion of, refraction and, 362
  in diseased eyes, 375
  precorneal film of, corneal damage due to loss of, 603
  protein fractions of, 183
    immunoelectrophoresis of, 183
Telangiectatic erythema, eye findings in congenital, **753**
Tenon's capsule, fasciitis originating in, 1012
Tests, for lacrimal secretory system, **47**
Therapy, ocular, **790**
Thiabendazole-$C^{14}$, ocular absorption of, **710**
Thiamine propyl dilsulfide $S^{35}$, uptake in rabbit eye, 786
Thyroid, exophthalmos, orbital decompression in, **1089**
    tropias of, surgical management, 804
  physiopathology of, 804
TONOGRAPHY, after water drinking, 605
  applanation, **798**
  carotid-compression and, to study carotid occlusion, **116**
  effect on scleral rigidity, 978
  in chronic simple glaucoma, 1005
  in diagnosing glaucoma, 981
  in Fuchs' syndrome, 1227
  in hypersecretion glaucoma, 1005
  postoperative, in primary angle-closure glaucoma, **487**
  suction cup decay vs, 1229
  to evaluate sclerotomy with cautery, **955**
  vacuum, in aphakic eyes, 1005
  with Maklakov tonometer, 797
Tonometer, applanation electronic, clinical evaluation, **263**
  hand applanation, **1208**
  Mackay-Marg, **263**, **838**
  Maklakov, tonography with, 797
  microtransfiguration, **1177**
  old and new, 767

**Explanation:** Numbers in **boldface** refer to Original Articles and Notes, Cases, Instruments


TONOMETRY, applanation, electronic, **838**
in husband-wife pairs, **635**
comparison Goldmann and Schiøtz, 1227
electromanometer, 370
errors in, anelasticity eyeball and, 604
in glaucoma diagnosis, 192
Schiøtz, 369
with air bubble in eye, **281**
sources variation in, 798
statistical studies of, 796
Toxocara canis, intraocular, 362
Toxoplasma, retinochoroiditis due to, spiramycin in, **603**
Toxoplasmosis, 362
congenital in twins, **44**
penimepicycline in, 791
Trabecular meshwork, drainage channels in, 981
TRACHOMA, gantrisin in, 999
inoculation against, 787
Madribon in, 999
vaccine, **788**
virology of, 995
virus, culture of, 788
Traffic accidents, visual impairment and, 1238
Trenimon Bayer, ocular alkaline phosphatase after, 998
Trepanal, in anesthesia, 185
Trichiasis, correction of, 1014
Tuberculosis, of conjunctiva, **793**
of lacrimal sac, 793
Tuberculous meningitis, eye changes in, 373
TUMORS, amputation neuroma, **569**
bronchial, metastatic to eye, **723**
ocular symptoms of, **1018**
intraocular, 1236
glaucoma secondary to, **493**
intrasellar, 1234
limbal dermoid, 1236
malignant, orbital site metastases of, 1012
$P^{32}$ diagnosis of, 791
multiple primitive, ocular localization, 1016
ocular, cytostatics in, 1017
of anterior uvea, 199
of choroid, 198, 376, 803, 1016, 1017, 1236
in pregnancy, **910**
photocoagulation in, 1016
retinal detachment and, 376
of ciliary body, 198, 1017, 1236
of conjunctiva, 376
differential diagnosis, 1017
of cornea, 198
of eyelids, 376
differential diagnosis, 1017
of iris, 604, 803, 1236
of lacrimal gland, 375
of lacrimal sac, 199
of Malherbe, 1017
of meibomian glands, 376
of optic disc, 198
of optic nerve, 609, 1232
of orbit, 199, 374, 375, 802, 803, 1012, 1013, 1016, 1236
in African children, 376
vascular, 197
of paranasal sinuses, 375
of pituitary, 576
of surface tissues eye, 803
of uvea, 1227
orbital hemorrhage simulating, **528**
orbital-ocular, 803
originating in pars ciliaris retinae, 375
suprasellar, 1234
Twins, congenital toxoplasmosis in, **44**
ocular motor apraxia in, 1233
optical components in developmental changes in, 785
Typhoid, endotoxin in eye inflammations, 363
vaccine, in eye disease, 363

U

Ulcer, rodent of cornea, 189
ULTRASONOGRAPHY, diagnostic, **588**
in eye disease, 186, **187**
ULTRASONOGRAPHY *(continued)*
in foreign body localization, 202
to determine axial length eye in aphakia, **1194**
to measure optical components eye, 599
to study transient myopia, 996
University of Toronto Faculty of Medicine, research meeting, **978**
Urea, use of, 999
Urokinase, use in anterior chamber, 790
UVEA, 368
anterior, cancer of, iridocyclectomy for, 1017
congenital melanoma of, 1227
antigenic differences in bovine, 604
autoantibody, in ocular disease, 367
ganglion cells of, in choroidal melanoma, **1034**
granular-cell myoblastoma of, 199
influenza affections of, 1003
melanoma of, 1016
respiratory enzymes in rabbit, **939**
UVEITIS, 190
acute anaphylactic, 795
clinical aspects of, 190
cytostatic agents in, 603
due to influenza, 1003
due to varicella, 367
endogenous, in infants, 1003
general disease and, 190
in Behçet's disease, **257**
in children, 1003
in multiple sclerosis, **540**
sanatorium treatment of, 190
skin-window responses in, **648**

V

Vaccine, live measles virus, effect on measles keratitis, 602
live trachoma, 788
smallpox, ocular complications after, 376, 804
typhoid, in eye disease, 363
Vaccinia immune globulin, in vaccinia keratitis, 365
Vaccinia keratitis, IDU and VIG in, 365
Valdeavellano, Jorge, **779**
Varicella, uveitis due to, 367
Vascular diseases, ischemic optic neuropathy and, **103**
obliterative, in Behçet's disease, **257**
of retina, 1232
Verhoeff Society, **347**
Viadril, influence on ocular tension, 796
VIRUSES, adenovirus 8, 793
epidemic keratoconjunctivitis and, 189
cataract due to, in mice, 184
cytomegalic inclusion, **1153**
diseases, emetine in, 600
herpes simplex, corneal stroma disease due to, **1136**
effect IDU on multiplication of, 788
in cataractous lens in rubella syndrome, **233**
recovery, in rubella syndrome, **222**
studies in Vogt, Koyanagi-Harada disease, 1227
trachoma, culture of, 788
VISION, after skull trauma, 378
binocular, results after strabismus operation, 602
role periphery in, **702**
compensatory eye movements and, 598
extrafoveal scotopic, pseudoametropia in, 997
impairment of, traffic accidents and, 1238
in ecology of common mole, 594
peripheral, examining, 186
restoration of, in temporal arteritis, by retrobulbar steroids, **693**
VISUAL ACUITY, after anticoagulants in retinal occlusion, **874**
after retinal surgery, 1009
apparatus of Ohm and Romberg to test objective, 184
colored test objects to measure, 599
effect sclerotomy with cautery on, **955**
foveal, recovery of, 978
improvement by amobarbital with pleoptics, **1171**
in amblyopia, 792
functional, **511**

**Explanation: Numbers in boldface refer to Original Articles and Notes, Cases, Instruments**

VISUAL ACUITY *(continued)*
in macular lesions, 1233
objective method to determine, 184
of stump-tail macaque, 595
peripheral, 597
Visual defects, in school children, 378
Visual disturbances, psychogenic, 373
Visual-evoked cortical response, in night blindness, **1166**
VISUAL FIELDS, defects in, choroid nevus and, **914**
suprasellar aneurysms and, 1235
effect topical epinephrine on, in glaucoma suspects, **272**
in alexia without agraphia, **1149**
in chronic glaucoma, 370
in hysterical amblyopia, **1106**
in macular lesions, 1233
in ocular histoplasmosis, **454**
in suprasellar lesions, 802
influence cortisone test on, **844**
loss, in hysteria, hypnosis in, 1011
models of, 186
reproducibility of, 191
Visual functions, disturbances of, due to alcohol, 201
improvement of, in advanced glaucoma, 798
increased ocular tension and, **1049**
Visual handicapped, children, education of, 1020
Visual perception, optical and neurophysiologic factors of, **995**
Visual phenomena, in retinal vein obstruction, 608
Visual receptive fields, in cat retina, 786
Visual response, of premature infants, 789
Visual sensory functions, strabismus and, 365
Visual strain, glaucoma and, 1005
Visual tests, cover, 188
Vitamins, A, deficiency, epidemiology of, 1018
microsomes of, retinal metabolism and, 182
C, glycerol and, to reduce ocular tension, **824**
E, in primary glaucoma, 1228
VITREOUS, 799
chemistry, after prolonged cortisone, 1006
contraction, in proliferative diabetic retinopathy, **200**
cysticercus in, operation for, 1231
embryonal blood vessels and, 193
hemorrhage, deferoxamine in, 791
ERG, in experimental, 372
in retinoschisis, **683**
in anterior chamber, tonography and, 1005
in pathogenesis of glaucoma, 605
loss, in cataract extraction, 192
VITREOUS *(continued)*
opacities, entopic phenomena of, 192
in young diabetics, 199
penetrating injuries of, air insufflation in, **1237**
position, influence osmotic agents on, **220**
posterior drainage intraocular fluids from, 1004
primary, persistent hyperplastic, early recognition and treatment, **1072**
replacement, with fresh human vitreous, 1008
with silicone, 1007
Vitreous-tug syndrome, **856**
Vogt-Koyanagi-Harada syndrome, 1003
virology of, 1227

**W**

Waardenburg syndrome, 360, 785
Weather, occlusion retinal artery and, 1011
Weill-Marchesani syndrome, **820**
Werner's syndrome, 1012
Wilmer Residents Association, **166**
Wounds, healing of, after cataract extraction, 798
after extraocular muscle operations, 1001
penetrating, blood biochemistry in, 202
Wroclaw, smallpox epidemic in, 804

**X**

Xeroderma pigmentosa Kaposi, conjunctival carcinoma and, 376
X-rays, changes in exophthalmos, 197
diagnosis, in blowout fractures orbit, **79**
in unilateral exophthalmos, 1012
effect on axolotl eye, 1018
localization of foreign bodies, 1237
ocular effects of, 1238
therapy, in absolute glaucoma, 191
Xylose, metabolism in rat lens, 183

**Z**

Zonule, changes in ciliary during accommodation, 789
in bird and mouse eyes, 595
Zonular membrane, in Weill-Marchesani syndrome, **820**
Zonulolysis, 1231
cryoextraction cataract and, 1007
evaluation of, **606**
histologic study after, 799
in cataract extraction, 370
of secondary, 580

# INDEX

## Authors and Titles of Original Articles, Notes, Cases, Instruments


**A**

AHUJA, O. P. and NEMA, H. V.: Experimental corneal vascularization and its management, **707**
AHUJA, O.P.: See NEMA, H. V.
ALFANO, Joseph E.: Ocular malformations: Associated with congenital heart disease, **963**
ALLEN, James C.: Gonioscopic findings after filtering surgery for glaucoma, **509**; Delayed anterior chamber formation after filtering operations, **640**; Cataract aspiration, **1141**
ALVAREZ, G. Raúl and LÓPEZ-VILLEGAS, Alfonso: Primary ocular sporotrichosis, **150**
ANTINE, Bartley E.: See HENDERSON, John Woodworth
ARM, Herbert G., WOOLRIDGE, Robert L., CHENG, Kung-Hsing and CHANG, I-Hsuing: Isolation of mycoplasma organisms (PPLO) from the human eye, **1125**
ARMALY, Mansour F.: Applanation pressure in husband-wife pairs, **635**
ASHTON, Norman: Oxygen and the growth and development of retinal vessels: In vivo and in vitro studies: The XX Francis I. Proctor Lecture, **412**
ATCHOO, Peter D. and VOGEL, Herbert P.: Phospholine Iodide (0.03%) in the therapy of glaucoma, **1044**
AURELIAN, Laure: See TAKTIKOS, Achilles

**B**

BAL, A.: See NEMA, H. V.
BALLEN, Peter H.: See BERGER, Harold J.
BALLOU, Gordon S.: See SCHIMEK, Robert A.
BARRIOS, Raúl Rodríguez and SOLÍS, Carlos: Carotid-compression tonographic test: Its application in the study of carotid artery occlusions, **116**
BARTLETT, Robert E. and McKINZIE, James W.: Surgery for ectropion, **298**
BAŞAR, Demir and ÖZMAN, Mazhar: Hemangioma of the lacrimal gland: Report of a case, **343**
BAUM, Gilbert: See WEINSTEIN, George W.
BECKER, Bernard: See PODOS, Steven M.
BECKER, Bernard and MORTON, W. Ross: Topical epinephrine in glaucoma suspects, **272**
BEHRENDT, Thomas: Scanning densitometer for photographic fundus measurements, **689**
BERGER, Harold J. and BALLEN, Peter H.: Gouty arthritis: As a complication of ophthalmic surgery, **755**
BINKHORST, Richard D.: See WEINSTEIN, George W.
BISARIA, K. K., GARG, K. C. and WAHAL, K. M.: Calcifying orbital hemangioendothelioma, **340**
BIXLER, Donald P.: Bacterial decontamination and cleaning of contact lenses, **324**
BLABLA, J. and JOHN, J.: The saturation effect in retina measured by means of He-Ne laser, **659**
BONIUK, Milton: See MILES, Donald R.
BRANDT, David E. and LEESON, C. Roland: Structural differences of fast and slow fibers in human extraocular muscle, **478**
BREGER, Barbara C. and LEOPOLD, Irving H.: The incidence of uveitis in multiple sclerosis, **540**
BRONSON, Nathaniel R. and TURTZ, Arnold I.: Cryosurgical iris retractor, **150**
BROWN, David Henderson: The urinary excretion of vanilmandelic acid (VMA) and homovanillic acid (HVA) in children with retinoblastoma, **239**
BRYSON, Jerry M.: See WOLTER, J. Reimer
BUCCI, Massimo G.: See VIRNO, Michele
BURIAN, Hermann M.: Occlusion amblyopia and the development of eccentric fixation in occluded eyes, **853**; Exodeviations: Their classification, diagnosis and treatment, **1161**. See LAWWILL, Ted

**C**

CANTORE, Giampaolo: See VIRNO, Michele
CASTROVIEJO, Ramón: Double-purpose forceps: For cataract surgery, **344**; New simplified lid-clamp retractor, **759**
CHANG, I-Hsuing: See ARM, Herbert G.
CHENG, Kung-Hsing: See ARM, Herbert G.
CINOTTI, Alfonse, A. and SILIQUINI, John J.: Antihistaminic therapy of chronic dacryocystitis, **116**
CLAHANE, Aurora C.: See GOLDSTEIN, Joseph H.
COHEN, Samuel W.: Management of errors of refraction with echothiophate iodide: 9 preliminary report, **303**
COTLIER, Edward, FOX, Jean and SMITH, Morton: Rubella virus in the cataractous lens of congenital rubella syndrome, **233**
CROLL, L. J.: See CROLL, Maurice
CROLL, Maurice and CROLL, L. J.: A new cryoslide technique for cataract removal, **83**

**D**

DAVIDSON, Richard: See GALIN, Miles A.
DELLAPORTA, A.: Experiments in scleral buckling: Part VI. Chamlin's scleral infolding: Evaluation with related procedures, **313**. See ROBERTS, Seymour R.
DETTBARN, Wolf-Dietrich: See de ROETTH, Andrew, Jr.
DEUTSCH, Alice R.: See ROY, Frederick Hampton
DRAEGER, J.: Simple hand applanation tonometer: For use on the seated as well as the supine patient, **1208**
DRANCE, Stephen M.: See VANDERBURG, Don

**E**

ELLIS, George D.: See LONG, John C.
ELLSWORTH, Robert M.: See HOWARD, George M.
ERNEST, J. Terry and KRILL, Alex E.: Fluorescein studies in fundus flavimaculatus and drusen, **1**
ERNEST, J. Terry and RIPPON, John W.: Keratitis due to Allescheria boydii (Monosporium apiospermum), **1202**
ERNYEI, Stephen: Craniofacial dysplasia: Associated with congenital cataract, impairment of hearing and brachydactyly, **697**
ESTERLY, Daniel B.: See FLYNN, Martin A.
ESTEVEZ, J. M. M. and RIDLEY, Frederick: Safety requirements for contact lens materials: And their manipulation and use, **132**

**F**

FANKHAUSER, F., GIGER, H. and LOTMAR, W.: A new attachment for the Goldmann perimeter: Its precision, limitations and clinical applications, **885**
FIELD, Richard A.: See LEE, Pei-fei
FISHMAN, Ronald S.: The visual-evoked cortical response in night blindness, **1166**
FLYNN, John T.: Experimental retinal thrombosis, **944**
FLYNN, Martin A. and ESTERLY, Daniel B.: Bilateral recurrent erosion of cornea, **964**
FONT, Ramon L., KAUFER, Gunther and WINSTANLEY, Robert A.: Metastasis of bronchial carcinoid tumor to the eye, **723**
FOX, Jean: See COTLIER, Edward
FOX, Sidney A.: The palpebral fissure, **73**; A modified Kuhnt-Szymanowski procedure: For ectropion and lateral canthoplasty, **533**
FRALICK, F. Bruce: See WOLTER, J. Reimer
FRANÇOIS, J. and HEINTZ-DE BRÉE, C.: Personal research on the heredity of chronic simple (open-angle) glaucoma, **1067**

FRANÇOIS, J., HEINTZ-DE BREE, C. and TRIPATHI, R. C.: The cortisone test and the heredity of primary open-angle glaucoma, 844
FRAUNFELDER, Frederick T. and POTTS, Albert M.: An experimental study of retinal detachments, 561
FREED, Charles C.: See McPHERSON, Samuel D.
FRENKEL, Marcel: See MOORE, Robert Y.
FRENKEL, Marcel and KLEIN, Harvey Z.: Malignant melanoma of the choroid in pregnancy, 910
FRIEDMAN, M. Wallace: Clip for encircling procedures, 151
FRIESEN, Herbert and MANN, William A.: Follow-up study of hysterical amblyopia, 1106
FUEGER, Gerhard F.: See MILAUSKAS, Albert T.
FUSTE, Federico: See ROY, Frederick Hampton

G

GALIN, Miles A., DAVIDSON, Richard and SHACHTER, Norbert: Ophthalmological use of osmotic therapy, 629
GARG, K. C.: See BISARIA, K. K.
GEOFFROY, Raymond, F.: See ROBINSON, Harry J.
GIGER, H.: See FANKHAUSER, F.
GILLS, James Pitzer Jr.: The electroretinogram after section of the optic nerve in man, 287
GINSBERG, Joseph, SPAULDING, Abbot G. and LAING, Vern O.: Cerebral phycomycosis (mucormycosis) with ocular involvement, 900
GOLDFARB, Harold J.: Implosion of a glass artificial eye, 154; An abrasion-free eye-patching technique, 575
GOLDSTEIN, Joseph H., CLAHANE, Aurora C. and SANFILIPPO, Stephanie: The role of the periphery in binocular vision, 702
GOMBOS, G.: See KORNBLUETH, W.
GOREN, Seymour B.: Expulsive subchoroidal hemorrhage: Following cataract surgery, 536
GORIN, George: Angle-closure glaucoma induced by miotics, 1063
GRACE, Eugene V.: Diffuse angiokeratosis (Fabry's disease), 139
GRAESSLE, Otto E.: See ROBINSON, Harry J.
GRAYSON, Merrill: See MILLER, Jerry R.
GROFF, Julian: See TENZEL, Richard R.
GUERRY, DuPont III: Observations on Cogan's microcystic dystrophy of the corneal epithelium, 65
GUPTA, J. S. and GUPTA, S. D.: Asteroid bodies: In the anterior chamber, 1207
GUPTA, S. D.: See Gupta, J. S.

H

HALPERN, Jesse I: Routine screening of the retinal periphery, 99
HAMDI, Turgut N.: See SHANNON, Gerard M.
HAWKINS, W. R. and SCHEPENS, Charles L.: Choroidal detachment and retinal surgery: A clinical and experimental study, 813
HEINTZ-DE BREE, C.: See FRANÇOIS, J.
HELVESTON, Eugene M.: Relationship between degree of anisometropia and degree of amblyopia, 757
HENDERSON, John Woodworth and ANTINE, Bartley E.: Brain scanning in neuro-ophthalmologic diagnosis, 1076
HESSBURG, Phillip C. and REBUCK, John W.: Skin-window responses in uveitis, 648
HETHERHINGTON, John, Jr.: See SHAFFER, Robert N.
HIATT, Roger L.: See ROY, Frederick Hampton
HILTON, George F. and SHAFFER, Robert N.: Electronic applanation tonometry, 838
HOLLAND, Monte G.: In vitro studies of ciliary body ion transport: Hypothermia and the electrophysiologic phenomena of active transport, 1128
HOWARD, George M. and ELLSWORTH, Robert M.: Findings in the peripheral fundi of patients with retinoblastoma, 243
HOWARD, Rufus O.: Herpes simplex keratoconjunctivits, 907
HOY, James E.: See WOLTER, J. Reimer
HYAMS, S. W., REISNER, S. H. and NEUMANN, E.: The eye signs in ataxia-telangiectasia, 1118

I

ILIFF, Charles E.: Treatment of the vitreous-tug syndrome, 856

J

JEPSON, C. Neal: See WETZIG, Paul C.
JOBBÁGYI, Peter: Double-pronged iris hook: For the cryoextraction of cataract, 977
JOHN, J.: See BLABLA, J.
JOHNSON, Robert, PRESTON, Robert and NEWTON, James C.: Amputation neuroma: Following pterygium excision, 569
JONES, Lester T.: The lacrimal secretory system and its treatment, 47
JONES, Samuel T.: Retrolental membrane associated with Bloch-Sulzberger syndrome (incontinentia pigmenti), 330
JUNGSCHAFFER, Otto H.: See LEAVELLE, Robert B.

K

KANDORI, Fumio: See TAMAI, Akihiko
KARPAS, Francis: See MOORE, Robert Y.
KATZENELLENBOGEN, I.: See LANDAU, J.
KATZIN, Herbert M. and MELTZER, Joseph F.: Combined surgery for corneal transplantation and cataract extraction, 556
KAUFER, Gunther: See FONT, Ramon L.
KAWANISHI, Hidenori: See TSUKAHARA, Isamu
KEATES, Richard H.: See RHEINS, Melvin S.
KELLERMAN, Leo and KING, Arnold D.: Preliminary observations on the use of new concentrations of echothiophate iodide in the treatment of glaucoma, 278
KELLEY, Kane L.: See ROBINSON, Harry J.
KENNEY, David: See SCHLAEGEL, T. F.
KIFFNEY, G. Thomas, Jr.: See McPHERSON, Samuel D.
KING, Arnold D.: See KELLERMAN, Leo
KLEIN, Harvey Z.: See FRENKEL, Marcel
KOBERNICK, Sidney: See SUGAR, H. Saul
KOHTIAO, A., RESNICK, I., NEWTON, J. and SCHWELL, H.: Temperature rise and photocoagulation of rabbit retinas exposed to the CW laser, 524; Threshold lesions in rabbit retinas exposed to pulsed ruby laser radiation, 664
KOLBERT, Gerald S.: Keratoacanthoma, 1205
KORNBLUETH, W., GOMBOS, G. and TRAUB, B.: The effect of osmotic agents employed before cataract extraction: On the position of the vitreous following removal of the lens, 220
KORONES, Sheldon B.: See ROY, Frederick Hampton
KRILL, Alex E.: See ERNEST, J. Terry

L

LAING, Vern O.: See GINSBERG, Joseph
LANDAU, J., KATZENELLENBOGEN, I. and LARON, Z.: Eye findings in congenital telangiectatic erythema and growth retardation (Bloom's syndrome), 753
LARON, Z.: See LANDAU, J.
LAWWILL, Ted and BURIAN, Hermann, M.: Luminance contrast function and visual acuity in functional amblyopia, 511
LEAVELLE, Robert B. and JUNGSCHAFFER, Otto H.: Severe trauma following repair of retinal detachment: Report of three cases, 339
LEE, King Y.: Alexia without agraphia, 1149
LEE, Pei-fei and FIELD, Richard A.: Hypophyseal stalk section and intraocular pressure, 11
LEE, Pei-fei, McMEEL, J. Wallace, SCHEPENS, Charles L. and FIELD, Richard A.: A new classification of diabetic retinopathy, 207
LEESON, C. Roland: See BRANDT, David E.
LEHMAN, Edward G.: See ROBINSON, Harry J.
LEOPOLD, Irving H.: New dimensions in ocular pharmacology: XXII Edward Jackson Memorial lecture, 396. See BREGER, Barbara C.
LEVY, Joel V. and ZEMEK, Lionel: Ophthalmic arteriovenous malformation, 971
LEVY, Phillip M.: See SPAETH, George Link
LINKSZ, Arthur: The Farnsworth panel D-15 test, 27

LONG, John C.: Iris atrophy: Following exposure to an electric arc, 153
LONG, John C. and ELLIS, George D.: Temporal decompression of the orbit for thyroid exophthalmos, 1089
LÓPEZ-VILLEGAS, Alfonso: See ALVAREZ, G. Raúl
LOTMAR, W.: See FANKHAUSER, F.
LOWE, Ronald F.: New instruments for measuring anterior chamber depth and corneal thickness, 7; Primary angle-closure glaucoma: Postoperative tonography tests, 487
LYNN, J. R.: See RICHARDS, R. D.

M

McGAVIC, John S.: Weill-Marchesani syndrome: Brachymorphism and ectopia lentis, 820
McKINZIE, James W.: See BARTLETT, Robert E.
McMEEL, J. Wallace: See LEE, Pei-fei
McPHERSON, Samuel D., Jr., KIFFNEY, G. Thomas, Jr., and FREED, Charles, C.: Corneal amyloidosis, 1025
MANN, William A.: See FRIESEN, Herbert
MELTZER, Joseph F.: See KATZIN, Herbert M.
MENEZO, Jose Luis: See QUINTANA, Manuel
MILAUSKAS, Albert T. and FUEGER, Gerhard F.: Serious ocular complications associated with blowout fractures of the orbit, 670
MILES, Donald R. and BONIUK, Milton: Pathogenesis of unilateral glaucoma, 493
MILLER, David: A review of speed-reading theory and techniques for the ophthalmologist, 334
MILLER, Gordon R. and SMITH, J. Lawton: Ischemic optic neuropathy, 103
MILLER, Jerry R., GRAYSON, Merrill and STOELTING, V. K.: Sedation with intramuscular methohexital sodium: For office and clinic ophthalmic procedures in children, 38
MOHAPATRA, L. N.: See NEMA, H. V.
MOORE, Robert Y., KARAPAS, Francis and FRENKEL, Marcel: Lateral geniculate projection from discrete retinal lesions in the cat, 918
MORTON, W. Ross: See BECKER, Bernard. See PODOS, Steven M.
MOSES, Lyle: Superior orbital fissure syndrome: Following tooth extraction, 163
MOSES, Robert A.: Schiøtz tonometry with an air bubble in the eye, 281
MOSTAFA, M. Salah El-Din: Aspergillus niger infection of the eye, 1204
MUENZLER, W. S.: Fusion in aphakic anisometropia, 764
MUTLU, Fikret: Experimental retinal vein occlusion and treatment with fibrinolysis, 282

N

NADEL, Alfred J.: Sclerotomy with cautery: A review of 110 operations at the Illinois Eye and Ear Infirmary, 955
NAUMANN, G., ZIMMERMAN, L. E. and YANOFF, M.: Visual field defect associated with choroidal nevus, 914
NEMA, H. V.: See AHUJA, O. P.
NEMA, H. V., AHUJA, O. P., BAL, A. and MOHAPATRA, L. N.: Mycotic flora of the conjunctiva, 968
NEUMANN, E.: See HYAMS, S. W.
NEWSOM, Samuel R.: See SCHIMEK, Robert A.
NEWTON, James C.: See JOHNSON, Robert
NEWTON, J.: See KOHTIAO, A.
NOLAN, John: Granuloma of lacrimal sac: Simulating a neoplasm, 756

O

OLIVER, M.: Posterior pole changes after cataract extraction in elderly subjects, 1145
OLSON, J. R. and YOUNGS, N. A.: Canaliculus reconstruction with homologous vein graft, 676
O'ROURKE, J.: See de SIBRIK, I.
ÖZMAN, Mazhar: See BASAR, Demir

P

PAYNE, Titus D. and THOMAS, Robert P.: Iridoschisis: A case report, 966
PECORI-GIRALDI, Jose: See VIRNO, Michele
PIXLEY, Patricia A.: See RHEINS, Melvin S.
PODOS, Steven M., BECKER, Bernard and MORTON, W. Ross: High myopia and primary open-angle glaucoma, 1039
POTTS, Albert M.: See FRAUNFELDER, Frederick T.
PRESTON, Robert: See JOHNSON, Robert
PREZIOSI, Victor A.: An apparatus for phase-contrast microscopic observation of viable corneal endothelium during freezing and thawing: A technique for obtaining suitable specimens and some preliminary observations, 19

Q

QUEIROGA, Geraldo: Slitlamp ophthalmoscope, 161
QUINTANA, Manuel and MENEZO, Jose Luis: Suture forceps for keratoplasty, 158

R

RAITTA, Christina: See VANNAS, Salme
RASKIND, Richard H.: Persistent hyperplastic primary vitreous: Urgency of early recognition and treatment, 1072
REBUCK, John W.: See HESSBURG, Phillip C.
REEH, Merrill J., and TSUJIMURA, James K.: Early detection and treatment of blowout fracture of the orbit, 79
REISNER, S. H.: See HYAMS, S. W.
RESNICK, I.: See KOHTIAO, A.
RHEINS, Melvin S., PIXLEY, Patricia A., SUIE, Ted and KEATES, Richard H.: Diagnosis of experimental fungal corneal ulcers by fluorescent antibody techniques, 892
RICHARDS, R. D. and LYNN, J. R.: The surgical management of gliomas of the optic nerve, 60
RICHARDSON, Kenneth T. and SHAFFER, Robert N.: Optic nerve cupping in congenital glaucoma, 507
RIDLEY, Frederick: See ESTEVEZ, J. M. M.
RIPPON, John W.: See ERNEST, J. Terry
RIZZUTI, A. Benedict: Multipurpose hand-held refraction diagnostic unit, 157
ROBB, Richard M.: Modification of May ophthalmoscope: For determination of monocular fixation, 164
ROBERTS, Seymour R., DELLAPORTA, A. and WINTER, Frank C.: The collie ectasia syndrome: Pathology of eyes of young and adult dogs, 728
ROBINSON, Harry J., GRAESSLE, Otto E., LEHMAN, Edward G., KELLEY, Kane L., GEOFFROY, Raymond F. and ROSENBLUM, Charles: Ocular absorbtion of thibendazole-$^{14}$C by the rabbit, 710
de ROETTH, Andrew, Jr.: Lens opacities in glaucoma patients on Phospholine Iodide therapy, 619
de ROETTH, Andrew, Jr., WONG, Annemarie, DETTBARN, Wolf-Dietrich, ROSENBERG, Philip and WILENSKY, Jane G.: Blood cholinesterase activity of glaucoma patients treated with Phospholine Iodide, 834
ROPER, Kenneth L.: William Lemuel Benedict, M. D.: An appreciation, 387
ROSEN, Emanuel: Detachment of the anterior hyaloid membrane, 1185
ROSENBERG, Philip: See de ROETTH, Andrew, Jr.
ROSENBLUM, Charles: See ROBINSON, Harry J.
ROTH, Nathan H.: Protection of the cornea: During retinal detachment surgery, 760
ROY, Frederick Hampton and DEUTSCH, Alice R.: The congenital rubella syndrome: Ocular pathogenesis and related embryology, 236
ROY, Frederick Hampton, FUSTE, Federico, HIATT, Roger L., DEUTSCH, Alice R. and KORONES, Sheldon B.: The congenital rubella syndrome with virus recovery: Ocular pathology and literature review, 222
RUBIN, Melvin L.: See TIERNEY, Jon P.

S

SABATES, Felix N.: Juvenile retinoschisis, 683
SAMPSON, Whitney G.: See TANNEHILL, James C.
SANFILIPPO, Stephanie: See GOLDSTEIN, Joseph H.
SCHEPENS, Charles L.: See HAWKINS, W. R. See LEE, Pei-fei. See WEIDENTHAL, Daniel T.
SCHIMEK, Robert A. and BALLOU, Gordon S.: Eastman 910 monomer for plastic lid procedures, 953
SCHIMEK, Robert A. and NEWSOM, Samuel R.: Restoration of vision in temporal arteritis by retrobulbar injections of steroids, 693

SCHLAEGEL, T. F., Jr. and KENNEY, David: Changes around the optic nervehead: In presumed ocular histoplasmosis, 454
SCHMIDT, David M.: See WOLTER, J. Reimer
SCHOCKET, Stanley S.: Two new instruments for retinal detachment surgery, 976
SCHWARZ, J.: See SETHI, K. K.
SCHWELL, H.: See KOHTIAO, A.
SETHI, K. K. and SCHWARZ, J.: Experimental ocular cryptococcosis in pigeons, 95
SETOGAWA, Tomoichi: See TAMAI, Akihiko
SCHACHTER, Norbert: See GALIN, Miles A.
SHAFFER, Robert N.: See HILTON, George F.
SHAFFER, Robert N. and HETHERINGTON, John, Jr.: Anticholinesterase drugs and cataracts, 613
SHANNON, Gerard M. and HAMDI, Turgut N.: Repair of injuries of the lacrimal canaliculus, 974
SHIPLEY, Thorne: See SMITH, J. Lawton. See WALSH, Thomas J.
de SIBRIK, I. and O'ROURKE, J.: Respiratory enzymes found in rabbit uvea, 939
SILIQUINI, John J.: See CINOTTI, Alfonse A.
SMITH, J. Lawton: See MILLER, Gordon R. See WALSH, Thomas Jr.
SMITH, J. Lawton, WALSH, Thomas J. and SHIPLEY, Thorne: Cortical blindness in congenital hydrocephalus, 251
SMITH, Morton: See COTLIER, Edward
SMOLIN, Gilbert: Infantile hereditary optic atrophy, 762
SÓLIS, Carlos: See BARRIOS, Raúl Rodriguez
SPAETH, George Link and LEVY, Phillip M.: Traumatic hyphema: Its clinical characteristics and the failure of estrogen to alter its course: A double-blind study, 1098
SPAULDING, Abbot G.: See GINSBERG, Joseph
STEPANIK, J.: Determining resistance to aqueous outflow by compression of the eyeball, 89
STOELTING, V. K.: See MILLER, Jerry R.
STRAMPELLI, B. and VALVO, A.: Durable mobility of ocular prostheses: Late results of a personal technique with 18 years' experience, 643
SUGAR, H. Saul: Pigmentary glaucoma: A 25-year review, 499; The oculoauriculovertebral dysplasia syndrome of Goldenhar, 678
SUGAR, H. Saul and KOBERNICK, Sidney: Subconjunctival pigmentation: Associated with the use of eye cosmetics containing carbon-black, 146
SUIE, Ted: See RHEINS, Melvin S.

T

TAKTIKOS, Achilles and AURELIAN, Laure: Experimental study of the corneal stroma caused by herpes simplex virus, 1136
TAMAI, Akihiko, SETOGAWA, Tomoichi and KANDORI, Fumio: Electroretinographic studies on retinitis punctata albescens, 125
TANNEHILL, James C. and SAMPSON, Whitney, G.: Extended use of Radiuscope® in contact-lens inspection, 538
TANTON, John H.: See WOLTER, J. Reimer
TASSMAN, William S.: Corneal dissection: Caused by extruding silicone plate, 574
TENG, C. C.: Macular dystrophy of the cornea: A histochemical and electron microscopic study, 436
TENZEL, Richard R. and GROFF, Julian: Anterior ethmoidal mucocele: Presenting in the orbit and diagnosed by positive contrast orbitography, 160
THOMAS, Robert P.: See PAYNE, Titus D.
THOMPSON, H. Stanley: Afferent pupillary defects: Pupillary findings associated with defects of the afferent arm of the pupillary light reflex arc, 860
TIERNEY, Jon P. and RUBIN, Melvin L.: A clinical evaluation of the electronic applanation tonometer, 263
TILLETT, Charles W. and TILLETT, Grace M.: Silicone sling in the correction of ptosis, 521
TILLETT, Grace M.: See TILLETT, Charles W.
TRAUB, B.: See KORNBLUETH, W.
TRIPATHI, R. C.: See FRANÇOIS, J.
TROUTMAN, Richard C.: See WEINSTEIN, George W.
TSUJIMURA, James K.: See REEH, Merrill J.
TSUKAHARA, Isamu, UENO, Itsuya and KAWANISHI, Hidenori: Retinal changes in human cytomegalovirus infection: An electron microscopic study, 1153
TSUTSUI, Jun: Improvement of visual acuity by amobarbital combined with pleoptics, 1171
TURTZ, Arnold I.: See BRONSON, Nathaniel R.

U

UENO, Itsuya: See TSUKAHARA, Isamu

V

VALVO, A.: See STRAMPELLI, B.
VANDERBURG, Don and DRANCE, Stephen, M.: Studies of the effects of artificially raised intraocular pressure: On retinal differential thresholds of the Bjerrum area, 1049
VANNAS, Salme and RAITTA, Christina: Anticoagulant treatment of retinal venous occlusion, 874
VERHOEFF, Frederick H.: Retinoblastoma undergoing spontaneous regression: Calcifying agent suggested in treatment of retinoblastoma, 573
VIRNO, Michele, BUCCI, Massimo G., PECORI-GIRALDI, Jose and CANTORE, Giampaolo: Intravenous glycerol-vitamin C (sodium salt) as osmotic agents to reduce intraocular pressure, 824
VRABEC, Fr.: The temporal raphe of the human retina, 926
VOGEL, Herbert P.: See ATCHOO, Peter D.

W

WAHAL, K. M.: See BISARIA, K. K.
WARD, Robert H.: Improved telescopic loupe, 344
WALSH, Thomas J.: See SMITH, J. Lawton
WALSH, Thomas J., SMITH, J. Lawton and SHIPLEY, Thorne: Blindness in infants, 546
WEIDENTHAL, Daniel T. and SCHEPENS, Charles L.: Peripheral fundus changes associated with ocular contusion, 465
WEIMER, John R.: Diagnostic corneal contact lenses: A kit to facilitate ophthalmoscopy, 159
WEINSTEIN, George W., BAUM, Gilbert, BINKHORST, Richard D. and TROUTMAN, Richard C.: A comparison of ultrasonographic and optical methods for determining the axial length of the aphakic eye, 1194
WETZIG, Paul C. and JEPSON, C. Neal: Treatment of diabetic retinopathy by light coagulation, 459
WILENSKY, Jane G.: See de ROETTH, Andrew, Jr.
WINSTANLEY, Robert A.: See FONT, Ramon L.
WINTER, Frank C.: See ROBERTS, Seymour R. See YUKINS, Richard E.
WINTER, Frank C. and YUKINS, Richard E.: The ocular pathology of Behçet's disease, 257
WOLTER, J. Reimer and BRYSON, Jerry M.: Overabundance of uveal ganglion cells: In eyes with choroidal melanoma, 1034
WOLTER, J. Reimer, FRALICK, F. Bruce and TANTON, John H.: Late results of orbital hemorrhage simulating orbital neoplasm: A false aneurysm and a blood cyst with foreign body granuloma in the orbit 528
WOLTER, J. Reimer, HOY, James E. and SCHMIDT, David M.: Chronic orbital myositis: Its diagnostic difficulties and pathology, 292
WONG, Annemarie: See de ROETTH, Andrew, Jr.
WOOLRIDGE, Robert L.: See ARM, Herbert G.

Y

YAMAMORI, Akira: Microtransfiguration tonometer, 1177
YANOFF, M.: See Naumann, G.
YOUNGS, N. A.: See OLSON, J. R.
YUKINS, Richard E.: See WINTER, Frank C.
YUKINS, Richard E. and WINTER, Frank C.: Ocular disease in congenital toxoplasmosis in nonidentical twins, 44

Z

ZEMEK, Lionel: See LEVY, Joel V.
ZIMMERMAN, L. E.: See NAUMANN, G.
ZUCKERMAN, Bernard, D.: Conjunctival pigmentation due to cosmetics, 672
ZWEIFACH, Philip H.: Incontinentia pigmenti: Its association with retinal dysplasia, 716